VIDE-V30402

JVC®

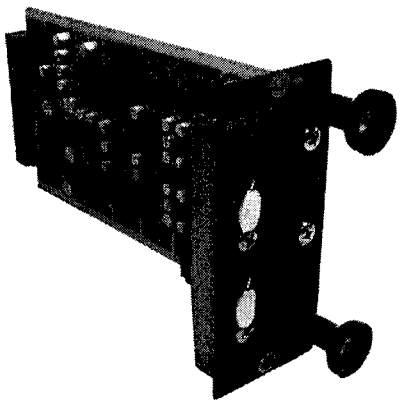
SERVICE MANUAL

DV VIDEO CASSETTE RECORDER

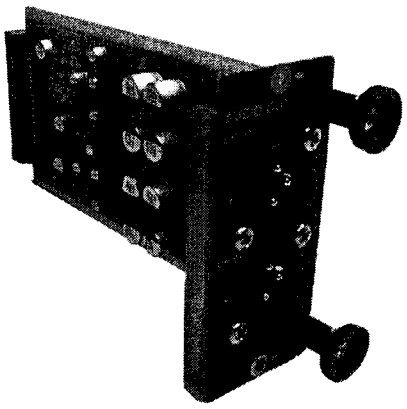
BR-DV6000U/E
SA-X61U/SA-X62U

– BR-DV6000U/E –

DV Mini DV



– SA-X61U –
(AUDIO XLR IN BOARD)



– SA-X62U –
(AUDIO XLR OUT BOARD)

100 % recycled paper

No. 9392
February 2003

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Important Safety Precautions

Prior to shipment from the factory, JVC products are strictly inspected to conform with the recognized product safety and electrical codes of the countries in which they are to be sold. However, in order to maintain such compliance, it is equally important to implement the following precautions when a set is being serviced.

●Precautions during Servicing

1. Locations requiring special caution are denoted by labels and inscriptions on the cabinet, chassis and certain parts of the product. When performing service, be sure to read and comply with these and other cautionary notices appearing in the operation and service manuals.

2. Parts identified by the ⚠ symbol and shaded (▒) parts are critical for safety.
   Replace only with specified part numbers.
   Note: Parts in this category also include those specified to comply with X-ray emission standards for products using cathode ray tubes and those specified for compliance with various regulations regarding spurious radiation emission.

3. Fuse replacement caution notice.
   Caution for continued protection against fire hazard.
   Replace only with same type and rated fuse(s) as specified.

4. Use specified internal wiring. Note especially:
   1) Wires covered with PVC tubing
   2) Double insulated wires
   3) High voltage leads

5. Use specified insulating materials for hazardous live parts. Note especially:
   1) Insulation Tape 3) Spacers 5) Barrier
   2) PVC tubing 4) Insulation sheets for transistors

6. When replacing AC primary side components (transformers, power cords, noise blocking capacitors, etc.) wrap ends of wires securely about the terminals before soldering.

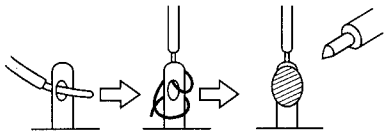


Fig.1

7. Observe that wires do not contact heat producing parts (heatsinks, oxide metal film resistors, fusible resistors, etc.)

8. Check that replaced wires do not contact sharp edged or pointed parts.

9. When a power cord has been replaced, check that 10-15 kg of force in any direction will not loosen it.

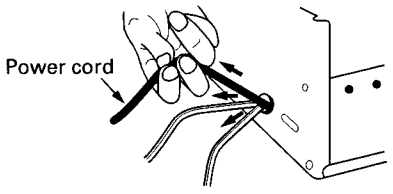


Fig.2

10. Also check areas surrounding repaired locations.

11. Products using cathode ray tubes (CRTs)
    In regard to such products, the cathode ray tubes themselves, the high voltage circuits, and related circuits are specified for compliance with recognized codes pertaining to X-ray emission. Consequently, when servicing these products, replace the cathode ray tubes and other parts with only the specified parts. Under no circumstances attempt to modify these circuits. Unauthorized modification can increase the high voltage value and cause X-ray emission from the cathode ray tube.

12. Crimp type wire connector
    In such cases as when replacing the power transformer in sets where the connections between the power cord and power transformer primary lead wires are performed using crimp type connectors, if replacing the connectors is unavoidable, in order to prevent safety hazards, perform carefully and precisely according to the following steps.

    1) **Connector part number** : E03830-001
    2) **Required tool** : Connector crimping tool of the proper type which will not damage insulated parts.
    3) **Replacement procedure**
       (1) Remove the old connector by cutting the wires at a point close to the connector.
       Important : Do not reuse a connector (discard it).

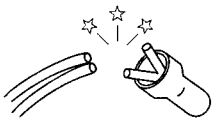


Fig.3

(2) Strip about 15 mm of the insulation from the ends of the wires. If the wires are stranded, twist the strands to avoid frayed conductors.

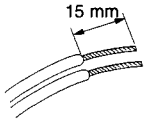


Fig.4

(3) Align the lengths of the wires to be connected. Insert the wires fully into the connector.

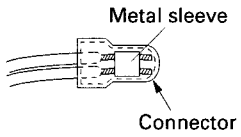


Fig.5

(4) As shown in Fig.6, use the crimping tool to crimp the metal sleeve at the center position. Be sure to crimp fully to the complete closure of the tool.

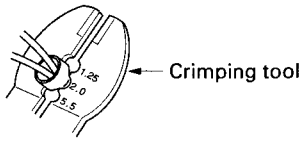


Fig.6

(5) Check the four points noted in Fig.7.

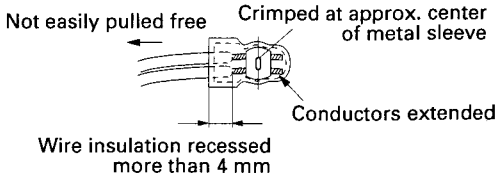


Fig.7

● Safety Check after Servicing

Examine the area surrounding the repaired location for damage or deterioration. Observe that screws, parts and wires have been returned to original positions, Afterwards, perform the following tests and confirm the specified values in order to verify compliance with safety standards.

1. **Insulation resistance test**
Confirm the specified insulation resistance or greater between power cord plug prongs and externally exposed parts of the set (RF terminals, antenna terminals, video and audio input and output terminals, microphone jacks, earphone jacks, etc.). See table 1 below.

2. **Dielectric strength test**
Confirm specified dielectric strength or greater between power cord plug prongs and exposed accessible parts of the set (RF terminals, antenna terminals, video and audio input and output terminals, microphone jacks, earphone jacks, etc.). See table 1 below.

3. **Clearance distance**
When replacing primary circuit components, confirm specified clearance distance (d), (d') between soldered terminals, and between terminals and surrounding metallic parts. See table 1 below.

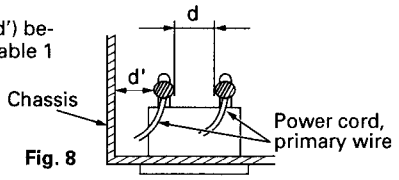


Fig. 8

4. **Leakage current test**
Confirm specified or lower leakage current between earth ground/power cord plug prongs and externally exposed accessible parts (RF terminals, antenna terminals, video and audio input and output terminals, microphone jacks, earphone jacks, etc.).
Measuring Method : (Power ON)
Insert load Z between earth ground/power cord plug prongs and externally exposed accessible parts. Use an AC voltmeter to measure across both terminals of load Z. See figure 9 and following table 2.

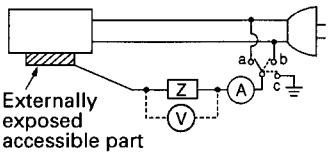


Fig. 9

5. **Grounding (Class I model only)**
Confirm specified or lower grounding impedance between earth pin in AC inlet and externally exposed accessible parts (Video in, Video out, Audio in, Audio out or Fixing screw etc.).
Measuring Method:
Connect milli ohm meter between earth pin in AC inlet and exposed accessible parts. See figure 10 and grounding specifications.

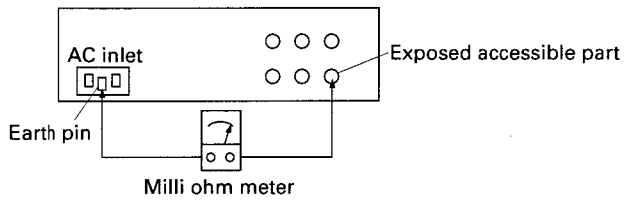


Fig. 10

Grounding Specifications

Region	Grounding Impedance (Z)
USA & Canada	Z ≦ 0.1 ohm
Europe & Australia	Z ≦ 0.5 ohm

AC Line Voltage	Region	Insulation Resistance (R)	Dielectric Strength	Clearance Distance (d), (d')
100 V	Japan	R ≧ 1 MΩ/500 V DC	AC 1 kV 1 minute	d, d' ≧ 3 mm
100 to 240 V			AC 1.5 kV 1 miute	d, d' ≧ 4 mm
110 to 130 V	USA & Canada	–	AC 900 V 1 minute	d, d' ≧ 3.2 mm
110 to 130 V 200 to 240 V	Europe & Australia	R ≧ 10 MΩ/500 V DC	AC 3 kV 1 minute (Class II) AC 1.5 kV 1 minute (Class I)	d ≧ 4 mm d' ≧ 8 mm (Power cord) d' ≧ 6 mm (Primary wire)

Table 1 Specifications for each region

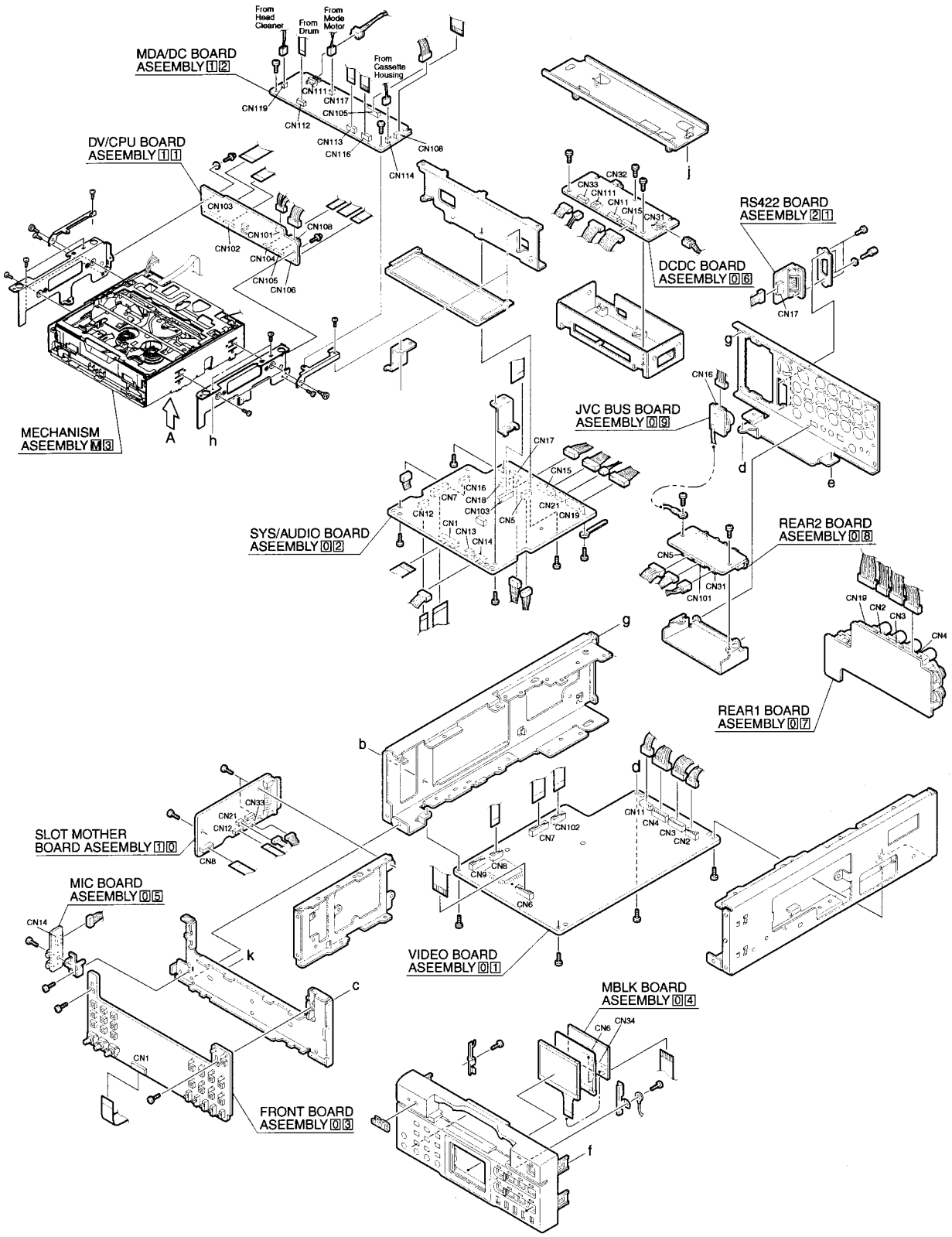
AC Line Voltage	Region	Load Z	Leakage Current (i)	a, b, c
100 V	Japan	1 kΩ	i ≦ 1 mA rms	Exposed accessible parts
110 to 130 V	USA & Canada	0.15 μF, 1.5 kΩ	i ≦ 0.5 mA rms	Exposed accessible parts
110 to 130 V 220 to 240 V	Europe & Australia	2 kΩ	i ≦ 0.7 mA peak i ≦ 2 mA dc	Antenna earth terminals
		50 kΩ	i ≦ 0.7 mA peak i ≦ 2 mA dc	Other terminals

Table 2 Leakage current specifications for each region

Note: These tables are unofficial and for reference only. Be sure to confirm the precise values for your particular country and locality.

SECTION 1
SERVICE CAUTIONS AND DISASSEMBLY

1.1 CONSTRUCTION OF THE MAIN BOARD



1.2 HOW TO REMOVE THE OUTER COVER

1.2.1 Top cover

(1) Remove the four screws ①.
(2) Remove the top cover while lifting the rear part of it.

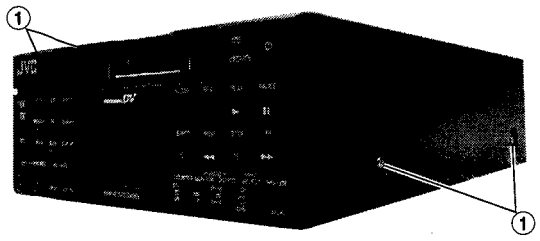


Fig. 1.2.1

1.2.2 Bottom cover

(1) Loosen the six screw ②.
(2) Remove the bottom cover while sliding to a rear side.

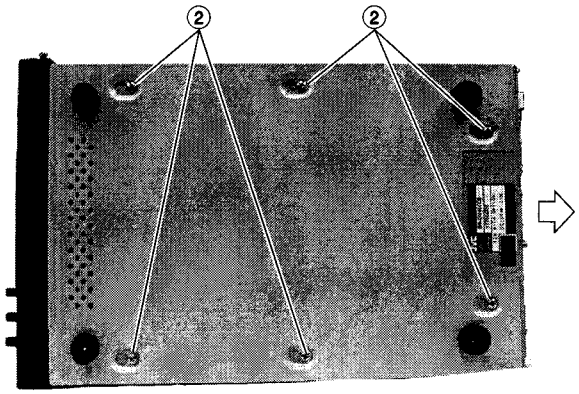


Fig. 1.2.2

1.2.3 Front panel

(1) Remove the top cover.
(2) Remove the front panel while releasing the four hooks.

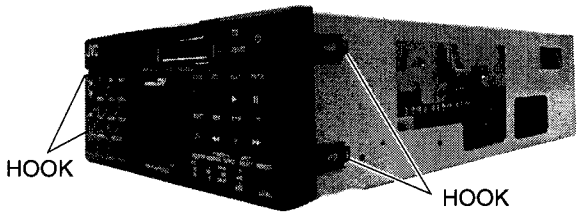


Fig. 1.2.3

1.2.4 Insulator

(1) Remove the two screws ③.
(2) Remove the insulator.

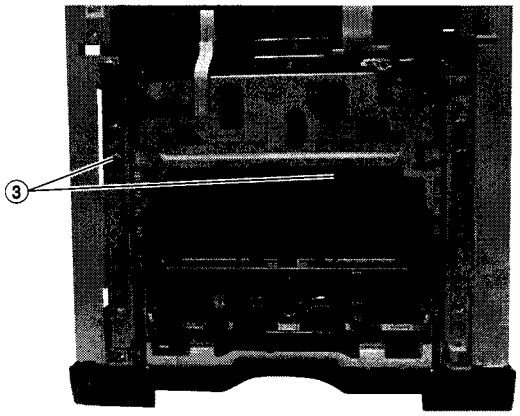


Fig.1.2.4

1.3 HOW TO REPLACE THE FUSE

(1) Disconnect the DC power cable before replace the fuse.
(2) Remove the top cover.
(3) Find the fuse F1 on the MDA/DC board.

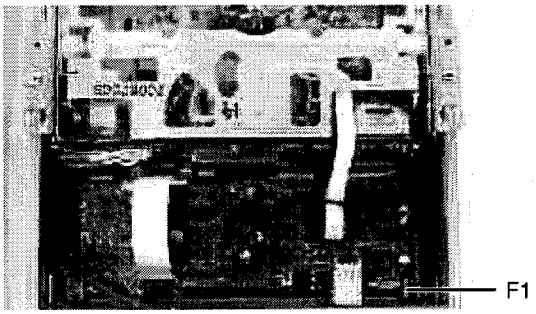


Fig. 1.3.1

(4) Remove a bracket of the DCDC board according to procedure 1.4.6.
(5) Find the fuse F1 on the DCDC board.

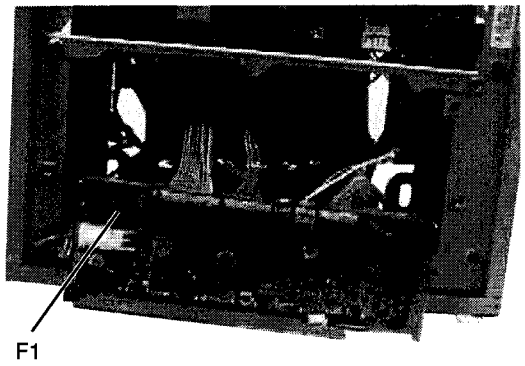


Fig. 1.3.2

CAUTION

- Before replacing the fuse, investigate and identify the cause of the blow out to prevent further damage.
- The fuse is an important item for safety. Please be sure to replace it with a fuse that has the specified parts numbers.

1.4 HOW TO EXAMINE THE BOARDS

1.4.1 VIDEO board assembly

(1) Remove the bottom cover to examine the B-aide of the video board.
(2) Remove the four screws ④ to examine the A-side.

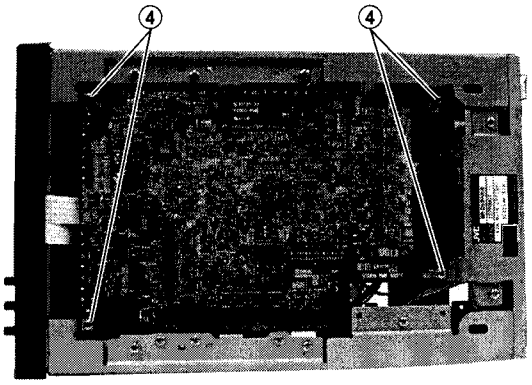


Fig. 1.4.1(1)

(3) Pull down the video board as shown in Fig. 1.4.1(2).

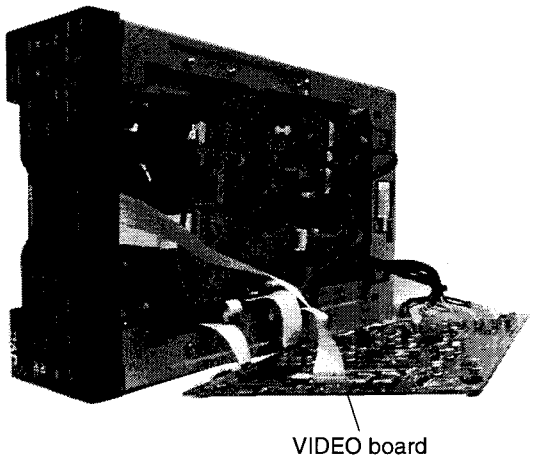


Fig. 1.4.1(2)

CAUTION

Keep a distance to a minimum from the unit, because this FFC cable may be damaged.

1.4.2 SYS/AUD board assembly

(1) Pull down the video board to examine the B-side of the SYS/AUD board.
(2) Remove the four screws ⑤ to examine the A-side.

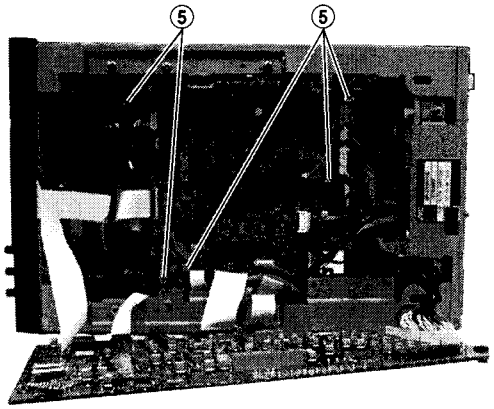


Fig. 1.4.2(1)

(3) Pull down the SYS/AUD board as shown in Fig. 1.4.2(2).

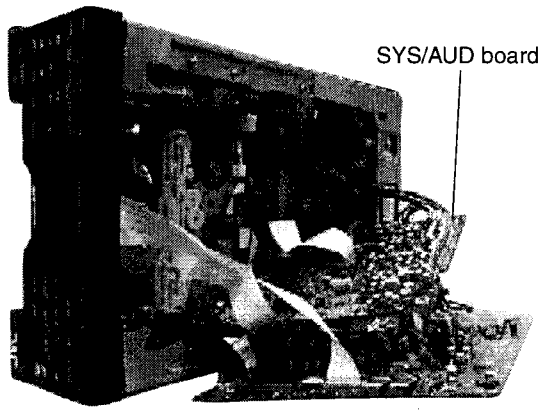


Fig. 1.4.2(2)

1.4.3 FRONT board assembly.

(1) Remove the front panel to examine the front board.
(2) Remove the two screws ⑥, and pull the board down to examine the B-side.

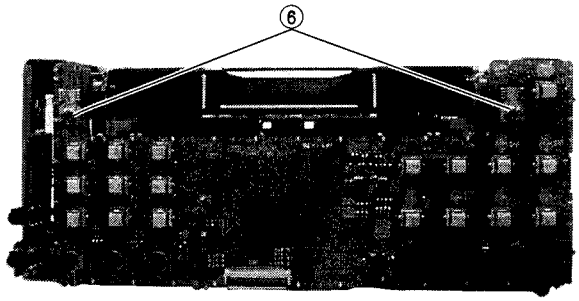


Fig. 1.4.3

1.4.4 MDA/DC board assembly

(1) Remove the top cover to examine the A-side.
(2) To examine the B-side, pull down the SYS/AUD board as shown in Fig. 1.4.4(2).

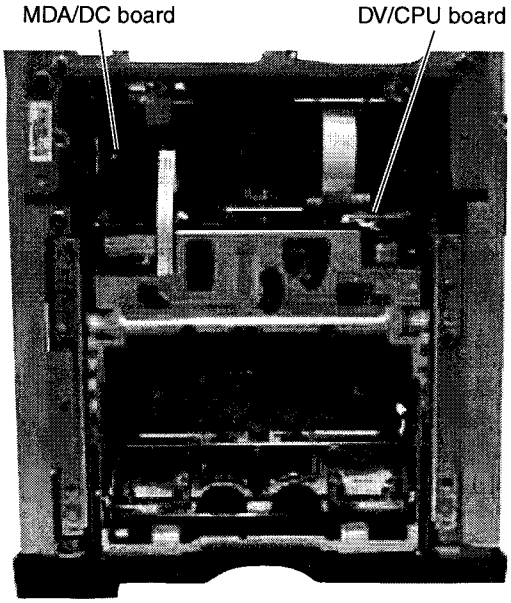


Fig. 1.4.4(1)

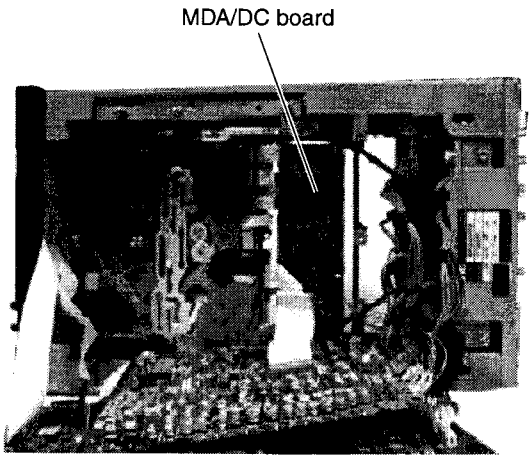


Fig. 1.4.4(2)

1.4.5 DV/CPU board assembly

(1) Remove the top cover as shown in Fig. 1.2.4(1) to examine the DV/CPU board.

1.4.6 DCDC board assembly

(1) Remove the top cover.
(2) Loosen the two screws ⑦, and remove the bracket while sliding to a front side.

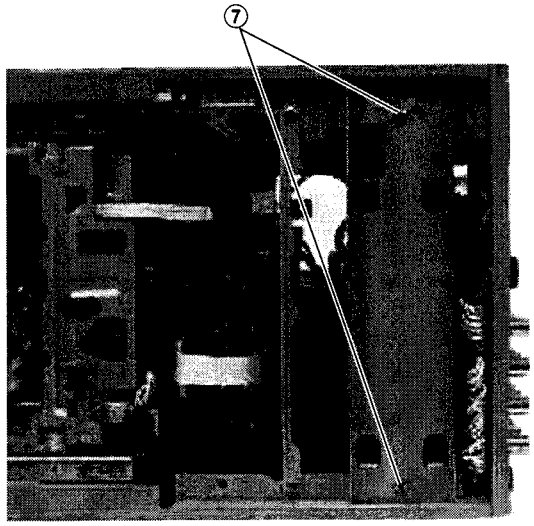


Fig. 1.4.6(1)

(3) Remove the connector of the FAN motor, and remove four screws ⑧ to examine the DCDC board as shown in Fig. 1.4.6(3).

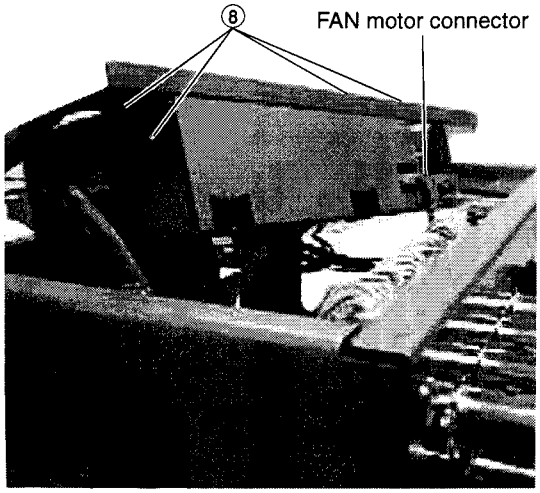


Fig. 1.4.6(2)

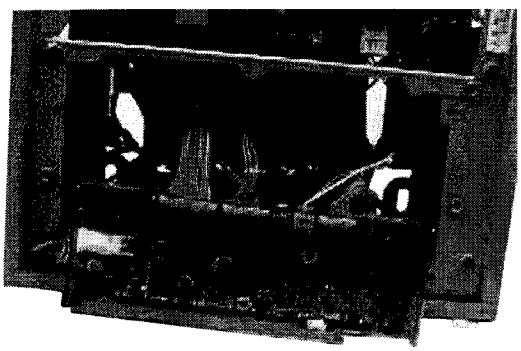


Fig. 1.4.6(3)

1.5 HOW TO REMOVE THE MECHANISM UNIT

(1) Remove the six screws ⑨.
(2) Remove the front panel.
(3) Remove the CN111 on the MDA/DC board and CN101 on the DV/CPU board.

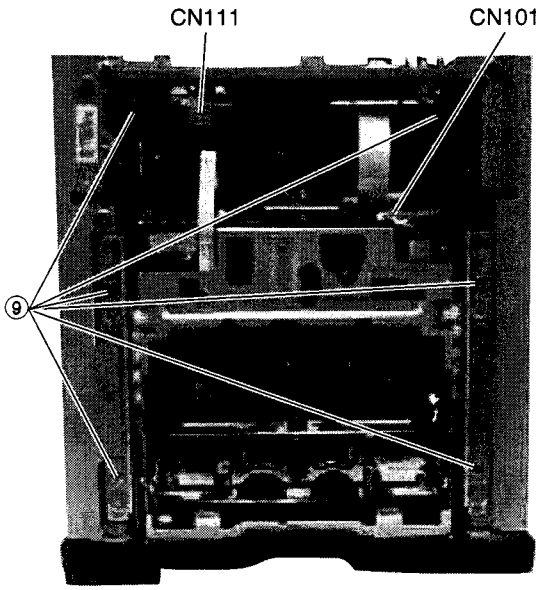


Fig. 1.5.1

(4) Remove the CN102 and CN103 on the DV/CPU Board.

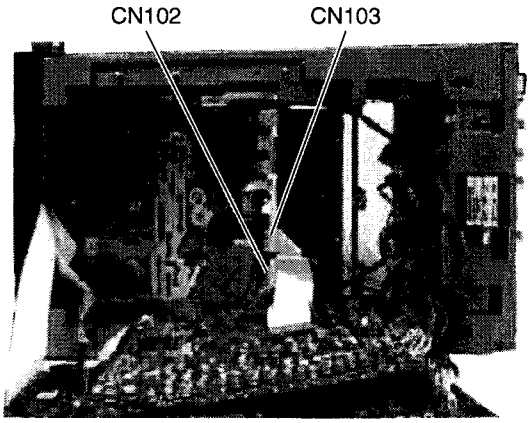


Fig. 1.5.1(2)

(5) Lift up to upward for removing the mechanism unit.

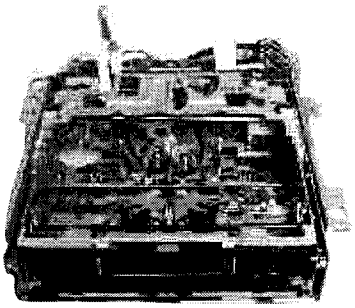


Fig.1.5.1(3)

1.6 HOW TO REMOVE THE MECHANISM ASSEMBLY

To remove only the mechanism assembly from the mechanism unit.

(1) Remove the shield case on the DV/CPU board and remove the CN107 FPC wire from the drum assembly.

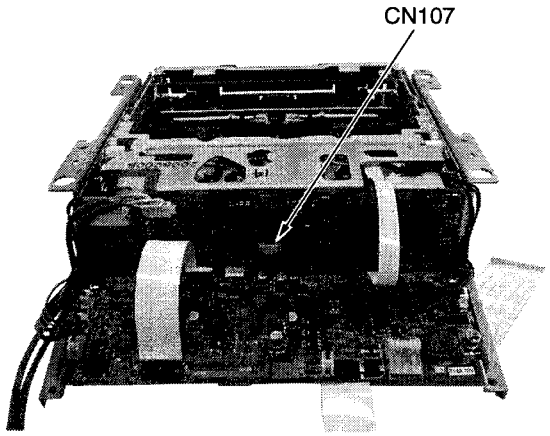


Fig. 1.6.1

(2) Remove the FFC wires that connects the mechanism board, which is mounted on the backs of the mechanism assembly, MDA/DC board, and the DV/CPU board.
(3) Remove the four screws ⑦ on the side.
(4) Remove the mechanism assembly as shown in Fig. 1.6.3.

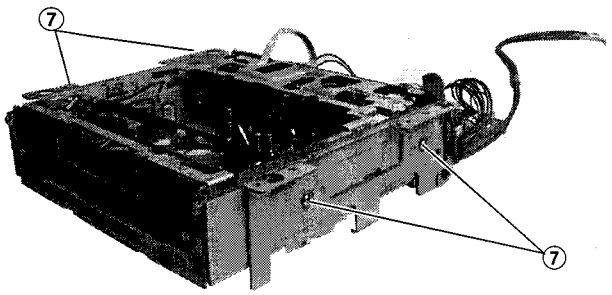


Fig. 1.6.2

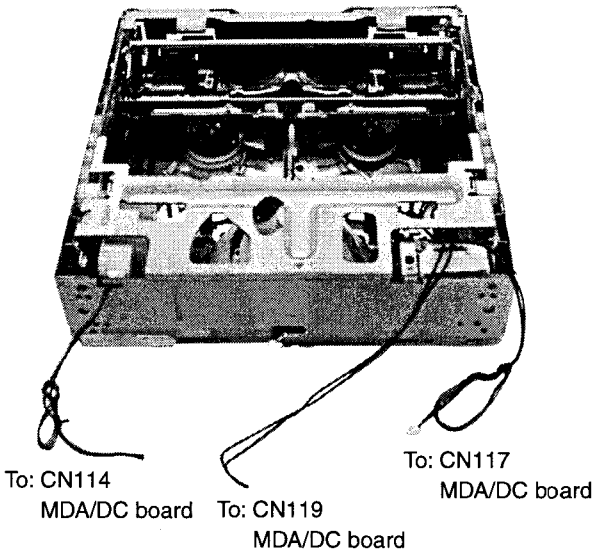


Fig. 1.6.3 Mechanism assembly

For instructions on disassembling each part of the mechanism assembly, please refer to the Section 2.

1.7 HOW TO TAKE OUT THE CASSETTE TAPE IN CASE OF EMERGENCY

An emergency system on this unit enables the cassette tape to be taken out manually.
When a cassette tape is stuck, take it out as described below.

Procedure

1. Gear Ⓐ : Emergency gear for MODE MOTOR
2. Gear Ⓑ : Emergency gear for REEL MOTOR
3. Gear Ⓒ : Emergency gear for HOUSING MOTOR

(1) In order to turn the mode motor, turn the gear Ⓐ (red color) in the direction of the arrow. While turning the gear also push it in to drive unloading.

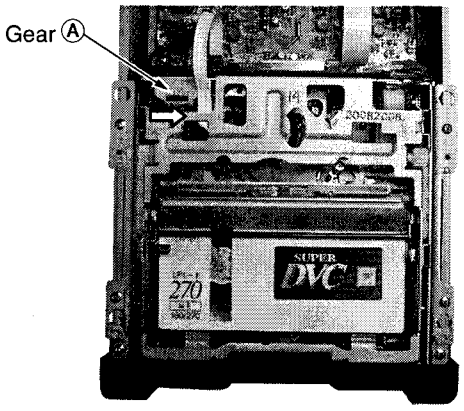


Fig. 1.7.1

(2) To wind the tape, when the tape is loosened a little, put a screw driver in the emergency gear Ⓑ, which drives the reel. (The drive direction does not matter.)

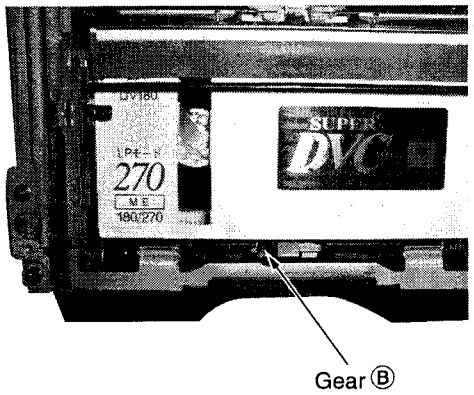


Fig. 1.7.2

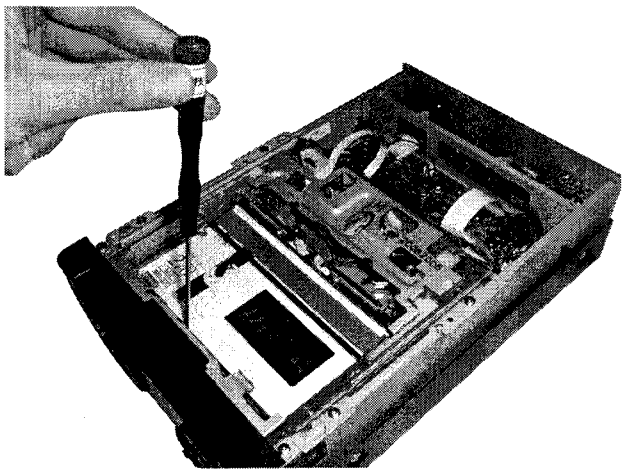


Fig. 1.7.3

(3) Repeat steps (1) and (2) alternately and little by little until the tape is wound completely into the cassette.
(4) Confirm that the tape is completely wound. Then, turn the gear Ⓒ (red color) in the direction of the arrow to eject the cassette housing. Take the cassette out when it comes out of the loading slot.

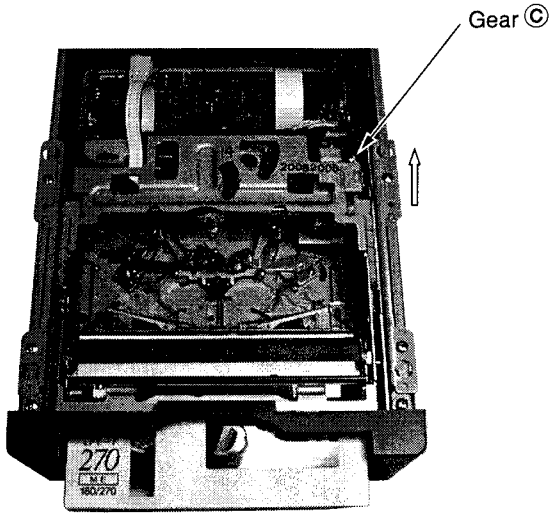


Fig. 1.7.4

CAUTION

When turn the Emergency gear (Mode) to Unloading direction by hand until the hole of the Main cam and the hole of the pinch cam in a straitline connecting. (refer to Fig.1.7.5) Please do not turn the Emergency gear (Mode) more than the above.

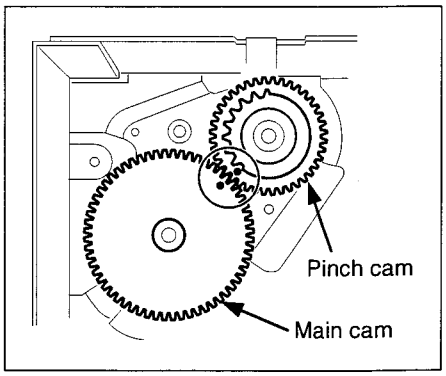


Fig. 1.7.5

1.8 SERVICE MENU

1.8.1 Usage procedure

(1) How to display the Service Menu

In no cassette condition, by pressing the MENU button while keeping either the STOP or PLAY button pressed, the first tier of the Service Menu will be displayed on the video monitor. As shown in Table 1.8.1, the Service Menu content that is displayed will differ depending on which buttons you press together simultaneously. (See Fig.8.1.1(2) to Fig.8.1.1(4))

(NOTE)

Only when displaying VTR 3 MENU, it is necessary to keep the PLAY + STOP buttons pressed while turning OPERATE ON. After that, press the MENU button.

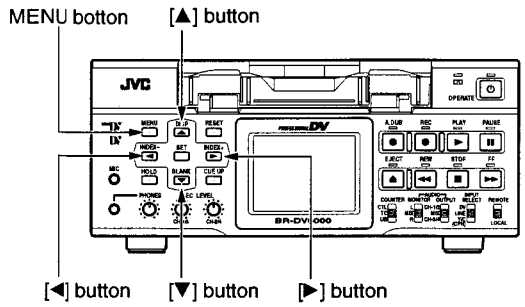


Fig. 1.8.1 (1) Front Panel

Item	Displayed Content	Activation Method		
		STOP	PLAY	PLAY +STOP
VTR1 MENU	VCR 1 Menu	○	○	○
VTR2 MENU	VCR 2 Menu	–	○	○
VTR3 MENU	VCR 3 Menu	–	–	○ (see note)
DIP SW	DIP SW Menu	–	○	○
HOUR METER	Hour Meter	–	○	○
ERROR HISTORY	Warning History	–	○	○
OTHERS	MENU SAVE etc.	–	○	○
CPU VERSION	CPU Version	○	–	–

Table 1.8.1 Service Menu First Tier List

(2) How to operate the Menu

① Press the ▲ or ▼ button on the front panel to move the cursor to the mode you want to change.
② Press the [SET] (or ► button) to select the item.
③ Press the ▲ or ▼ button to change the parameter.
④ When finished making the change, press the [SET] button. The parameter stops blinking when the change has been confirmed. (Returning using the ◄ button or [MENU] button causes the setting to revert to the status prior to the change.)
⑤ When all settings are completed, move the cursor to "PAGE BACK" and press the [SET] button to return to the MENU screen.

* If the ◄ button is pressed when the parameter is not blinking, it returns to the main screen.
* If the [MENU] button is pressed, it returns to the normal screen.

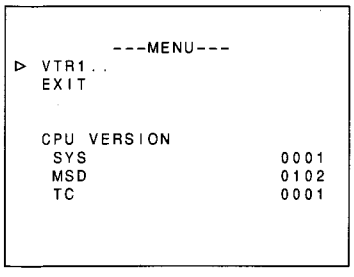


Fig. 8.1.1(2) Menu Screen (with STOP pressed simultaneously)

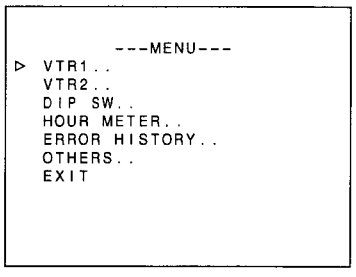


Fig. 8.1.1(3) Menu Screen (with PLAY pressed simultaneously)

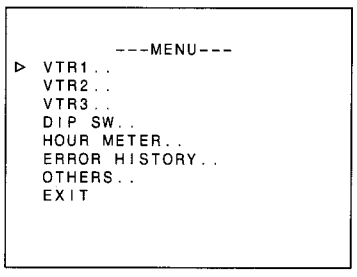


Fig. 8.1.1(4) Menu Screen (with PLAY + STOP pressed simultaneously)

1.8.2 VTR 1 menu

Item	Parameter	
REC REPEAT	[OFF]	No repeat recording
	2	Repeat recording 2 times
	12	Repeat recording 12 times
	ON	Full repeat recording
FOOT SW LEVEL	LEVEL1	Possible from any mode
	[LEVEL2]	Possible only from STOP or REC PAUSE mode
MIC REC CH (change prohibited)	NORMAL	Record input signal from connected MIC only on CH1 (CH3 : during A.DUB mode)
	CH1-MIX	Record CH1 input signal from connected MIC on CH1/CH2
	[CH2-MIX]	Record CH2 input signal from connected MIC on CH1/CH2 (CH3/CH4 during A.DUB)
ID 422 (H)	[F0]	High Device ID (00~FF). First bit is fixed at PAL1, NTSC0 automatically
ID 422 (L)	[4E]	Low Device ID (00~FF)
FF/REW SPEED	x50	Maximum FF/REW speed is regulated to x50
	x75	Maximum FF/REW speed is regulated to x75
	[x100]	Maximum FF/REW speed is regulated to x100
	MAX	No maximum FF/REW speed regulation
Y/C ASPECT	[OFF]	Does out detect the wide aspect and not add DC gain when Y/C input.
	ON	Detect the wide aspect ID and add the DC gain when Y/C input.

☐ is default setting when shipped from factory.

Table 1.8.2 VTR 1 Menu Setting Item List

1.8.3 VTR 2 menu

Item	Parameter	
LONG PAUSE	OFF	Disables long pause function
	[ON]	Enables long pause function
REC MODE	[SP]	SP recording
	LP	LP recording (Do not change since performance cannot be guaranteed)
LP WARNING	OFF	LP INH not displayed (Enables playback with LP mode) (Do not change since performance cannot be guaranteed)
	[ON]	LP INH displayed (Disables playback with LP mode)
TEMP THRESHOLD	[220]	Threshold of rising temperature warning display, 00~255 (220 [DCh] = internal temperature approx. 60°C). Refer to item "TEMP" in table 1.8.7 (1)
BATT. SHUT DOWN	[10.8]	Voltage value to carry out power OFF operation (Set at OFF, 10.0~12.0 in increments of 0.1)
BATT. ALARM	[11.0]	Voltage value to trigger display of battery alarm warning (Set at 10.0~12.0 in increments of 0.1)

☐ is default setting when shipped from factory.

Table 1.8.3 VTR 2 Menu Setting Item List

1.8.4 VTR 3 menu

Changing of settings is prohibited.

Item	Parameter
RESERVED	[0] Standard setting

☐ is default setting when shipped from factory

Table 1.8.4 VTR 3 Menu Setting Item List

1.8.5 DIP switch menu

Sets the DIP SW. (All status are set to "OFF" or "0" when shipped.)

Item	Parameter	Default setting at factory
DIP SW 1/3		
DIP SW – 0	1: Displays error rate monitor and CPU port information	[0]
DIP SW – 1	ON: Disables warning detection	[OFF]
DIP SW – 2	Change prohibited	[OFF]
DIP SW – 3	ON: Disables DEW warning	[OFF]
DIP SW – 4	Change prohibited	[OFF]
DIP SW – 5	Change prohibited	[OFF]
DIP SW – 6	Change prohibited	[0]
DIP SW – 7	Change prohibited	[OFF]
DIP SW 2/3		
DIP SW – 8	Change prohibited	[OFF]
DIP SW – 9	Change prohibited	[OFF]
DIP SW – 10	(SW10/SW11): (0/0) AV multiplication error rate display (0/1) Audio error correction impossibility count display (1/1) Canceal multiplication value display	[OFF]
DIP SW – 11		[OFF]
DIP SW – 12	Change prohibited	[OFF]
DIP SW – 13	Change prohibited	[OFF]
DIP SW – 14	Change prohibited	[OFF]
DIP SW – 15	Change prohibited	[OFF]
DIP SW 3/3		
DIP SW – 16	Change prohibited	[OFF]
DIP SW – 17	Change prohibited	[OFF]
DIP SW – 18	Change prohibited	[OFF]
DIP SW – 19	Change prohibited	[OFF]
DIP SW – 20	Change prohibited	[OFF]
DIP SW – 21	Change prohibited	[OFF]
DIP SW – 22	Change prohibited	[OFF]
DIP SW – 23	Change prohibited	[OFF]

☐ is default setting when shipped from factory

Table 1.8.5 DIP SW Menu Setting Item List

1.8.5.1 Details of DIP SW-0

Do not change the setting other than as described below.

(1) Error rate monitor
By setting the DIP SW-0 to "2", the error rate value is displayed on the monitor screen.
The error rate value is always the result of the total value of the CH-1 (upper position), CH-2 (lower position) and AUDIO/VIDEO values when the Viterbi mode is ON.

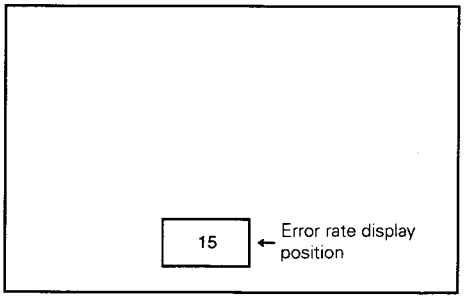


Fig. 1.8.5 (1) Error rate monitor screen

(2) RS422 command display

By setting the DIP SW-0 to "7", 18 of the latest RS422 receiving commands are displayed on the monitor screen (including Status Sense/Current Time Sense).

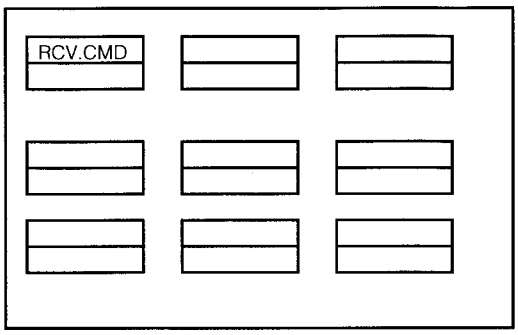


Fig. 1.8.5 (2) RS422 CMD DISPLAY screen 1

By setting the DIP SW-0 to "8", 11 of the latest RS422 receiving commands are displayed (excluding Status Sense/ Current Time Sense).

The VTR Status Sense is displayed at the bottom of the monitor screen.

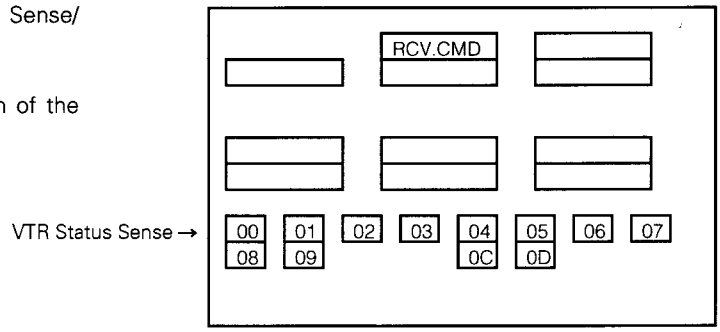


Fig. 1.8.5 (3) RS422 CMD DISPLAY screen 2

(3) By setting the DIP SW-0 to "15", the RS232C receiving and sending data are displayed on the screen.

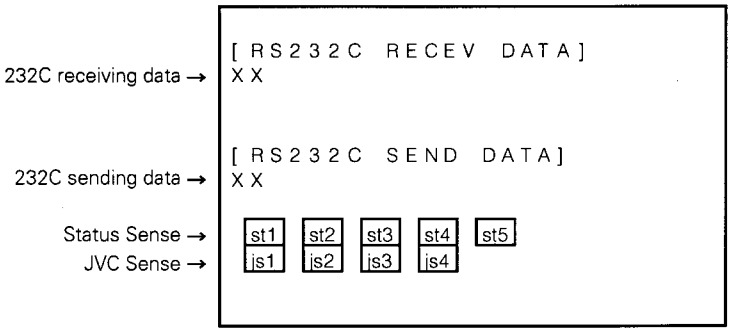


Fig. 1.8.5 (4) RS232C CMS DISPLAY

1.8.6 HOUR METER menu

Displays and resets the various types of hour meters.
When the parameter is set to "CLEAR" and the SET button is pressed, the hour meter is cleared.

Item	Parameter		Time duration/number of times display is possible
DRUM	[Time display] H	Displays the drum hour meter (for drum maintenance)	000000~999999 Time duration
	CLEAR	Resets the drum hour meter	
TOTAL DRUM	[Time display] H	Displays the total drum hour meter	000000~999999 Time duration
	CLEAR	Resets the total drum hour meter (Does not work unless the special setting)	
POWER	[Time display] H	Displays the power hour meter	000000~999999 Time duration
	CLEAR	Resets the power hour meter	
CAPSTAN	[Time display] H	Displays the capstan hour meter	000000~999999 Time duration
	CLEAR	Resets the capstan hour meter	
REEL FWD	[Time display] H	Displays the reel forward direction running hour meter	000000~999999 Time duration
	CLEAR	Resets the reel forward direction running hour meter	
REEL REV	[Time display] H	Displays the reel reverse direction running hour meter	000000~999999 Time duration
	CLEAR	Resets the reel reverse direction running hour meter	
LOADING	[Number display]	Displays the number of times a tape was loaded	000000~999999 Number of times (events)
	CLEAR	Resets the number of times a tape was loaded	
EJECT (MINI)	[Number display]	Displays the number of times a mini cassette was ejected	000000~999999 Number of times (events)
	CLEAR	Resets the number of times a mini cassette was ejected	
EJECT (STD)	[Number display]	Displays the number of times a standard cassette was ejected	000000~999999 Number of times (events)
	CLEAR	Resets the number of times a standard cassette was ejected	
FWD/REV	[Number display]	Displays the number of FWD/REV switchings	000000~999999 Number of times (events)
	CLEAR	Resets the number of FWD/REV switchings	
FF/REW	[Number display]	Displays the number of FF/REW switchings	000000~999999 Number of times (events)
	CLEAR	Resets the number of FF/REW switchings	
CLEANER	[Number display]	Displays the number of times the cleaner was activated	000000~999999 Number of times (events)
	CLEAR	Resets the number of times the cleaner was activated	

☐ is default setting when shipped from factory

Table 1.8.6 HOUR METER Menu Setting Item List

1.8.7 ERROR HISTORY menu

It can display 4 errors that have occurred in the past.
Initially, when there is no error history in the memory, the first error to occur will be logged in the first position (HISTORY-1). The second and third errors to occur will be logged in (HISTORY-2) and (HISTORY-3). All subsequent errors will be overwritten in (HISTORY-4).
The fourth and subsequent errors are set to overwrite in order to prevent the user from repeatedly attempting to use a malfunctioning unit and thereby erasing any record of the initial cause error. Be sure to clear the error history before returning a repaired unit to the customer.
When resetting ERROR HISTORY, set the parameter for "CLEAR" to "EXECUTE", and press the [SET] button.

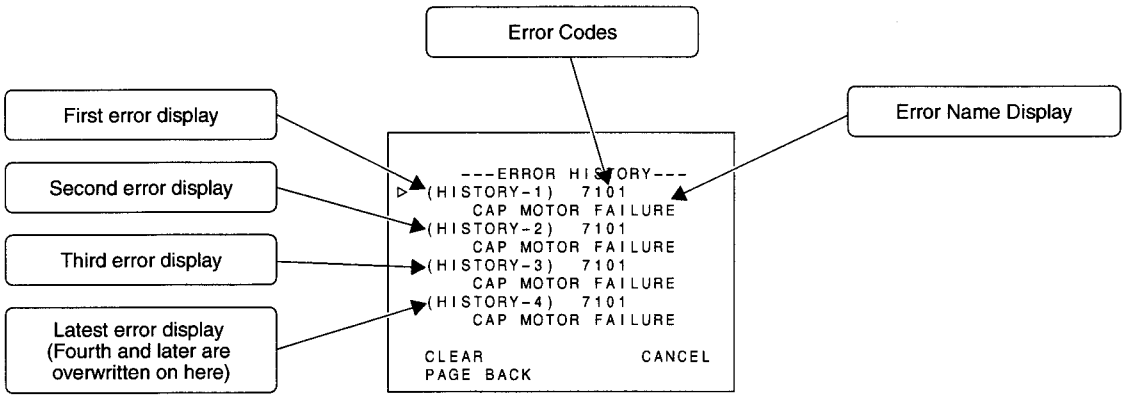


Fig. 1.8.7 (1) ERROR HISTORY

(1) MECHANISM INFO (Detailed information when error occurs)

Move the cursor to the error code on the "ERROR HISTORY" screen, and press the [SET] button (or ▶ button) to display the MECHANISM INFO screen as it was at the time of the error, you can check the details of the malfunction.

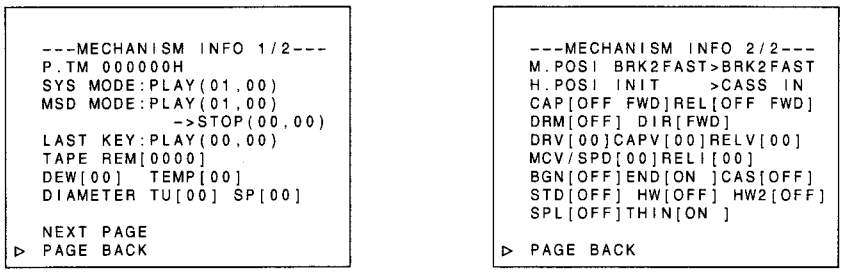


Fig. 1.8.7 (2) MECHANISM INFO Display Screen

Item	Content	Displayed Content
P.TM	POWER HOUR METER	Power hour meter is display.
SYS MODE	SYSCON CPU mode when error occurred PLAY (03, 00) MODE DATA | Parameter	SFF/SREW parameter is speed display. (Refer to Fig. 1.8.7 (2) Speed parameter) Parameters of other modes are irrelevant. EJECT (01) : Eject ADUB (0B) : Audio Dub STOP (02) : Stop ADBP (0C) : Audio Dub Pause PLAY (03) : Play REC (13) : Rec STL (04) : Still RECP (14) : Rec Pause FF (05) : FF DVRC (15) : DV Rec REW (06) : Rew DVRP (16) : DV Rec Pause SFF (07) : Search Fwd POFF (1A) : Power Off SREW (08) : Search Rev NDEF (1F) : During initial operation
MSD MODE	MSD CPU mode and target mode when error occurred PLAY (01, 00) MODE DATA | Parameter	
LAST KEY	Final Key code when error occurred PLAY (E7, 01) MODE DATA | Parameter	SFF/SREW parameter is speed display (See Fig. 1.8.7(2)) Other parameters are 01: ON, 00: OFF REC (E0) : Rec SFF (EB) : Search Fwd RECP (E1) : Rec Pause SREW (EC) : Search Rev DVRP (E2) : DV Rec Pause STOP (F0) : Stop ADUB (E5) : Audio Dub EJECT (F1) : Eject ADBP (E6) : Audio Dub Pause HWUP (F2) : Housing Up PLAY (E7) : Play HWDN (F3) : Housing Down STL (E8) : Still POFF (F4) : Power Off FF (E9) : FF DVRC (F5) : DV Rec REW (EA) : Rew PON (FA) : Power on
TAPE REM	TAPE REMAIN	Displays tape remaining in minutes ([FFFF] : not detected)
DEW	DEW sensor A/D intake value	DEW detects (at low temp. [13], at normal temp [CD]) DEW off (at low temp. [12], at normal temp [99])
TEMP	Temperature sensor A/D intake value The value "49" [5°C] is threshold of detecting low temperture. The value "DC" [60°C] is the threshold of displaying "OVER HEATING" message.	Temperature is displayed in hexadecimal value. -10°C ➡ [22] 20°C ➡ [7C] 50°C ➡ [CC] - 5°C ➡ [2D] 25°C ➡ [8C] 55°C ➡ [D4] 0°C ➡ [3A] 30°C ➡ [9C] 60°C ➡ [DC] 5°C ➡ [49] 35°C ➡ [AA] 10°C ➡ [59] 40°C ➡ [B7] 65°C ➡ [E1] 15°C ➡ [6A] 45°C ➡ [C2] 70°C ➡ [E6]
DIAMETER	Displays wound tape diameter (Take-up, Supply)	[00]—[FF] : 0mm-82mm (Diameter) ([00] is non-detected)
M. POSI	Mechanism position and target mechanism position	[2ULD], [ULD2BRK], [BRK], [BRK2FAST], [FAST], [FAST2STP], [STP], [STP2SRH], [SRH], [SRH2], [INIT]("2" is the meaning of "TO". It means transition. Refer to section 2, Mechanism Timing Chart.)
H. POSI	Housing position and target housing position	[EJECT], [EJECT2IN], [CASS IN], [RELEASE](Release the SUP reel lock.) [INIT](For the intake and eject operation, refer to section 8.2.3.)
CAP	Capstan status	[ON] : Rotate [FWD/REV]: Direction display [OFF] : Stop
REL	Reel status	[ON] : Rotate [FWD/REV]: Direction display [OFF] : Stop
DRM	Drum status	[ON] : Rotate [OFF] : Stop
DIR	Direction of tape running (Direction of target)	[FWD/REV] : Direction display
DRV	Drum control voltage	[00-FF] : 0—3V
CAPV	Capstan control voltage	[00-FF] : 0—3V
RELV	Reel control torque value	[00-FF] : 0—3A

<table>
<tr><th>Item</th><th>Content</th><th>Displayed Content</th></tr>
<tr><td rowspan="2">MCV/SPD</td><td>Loading/cassette housing control voltage (when error code 4xxx and error code 3xxx is displayed.)</td><td>[00-FF] : 0—8V (Displays mode motor control voltage during error code 3xxx)
[00-FF] : 0-11V (Displays cassette motor control voltage during error code 4xxx)</td></tr>
<tr><td>Tape speed (When the code excepting error code 4xxx and error code 3xxx is displayed.)</td><td>[00-FA] : 0—25X (FF is displayed when the speed is faster than this.)
"Tape speed" is a function to convert the hexadecimal value into a decimal value, and no speed parameter of the tape.
(ex. FAh = 250 → The speed is 25.0X.)</td></tr>
<tr><td>RELI</td><td>Reel current (Cassette housing motor current during housing-related warning)</td><td>[00-FF] : 0—1.2A</td></tr>
<tr><td>BGN</td><td>Begin sensor</td><td>[ON] : Leader tape detected
[OFF] : Magnetic tape detected</td></tr>
<tr><td>END</td><td>End sensor</td><td>[ON] : Trailer tape detected
[OFF] : Magnetic tape detected</td></tr>
<tr><td>CAS</td><td>Cassette SW status</td><td>[OFF] : No cassette
[ON] : Cassette detected (STD/MINI)</td></tr>
<tr><td>STD</td><td>Standard cassette SW status</td><td>[OFF] : Mini cassette tape inserted
[ON] : STD cassette tape inserted</td></tr>
<tr><td>HW, HW2</td><td>Housing SW/Housing 2SW status</td><td><table><tr><th>HW SW</th><th>HW2 SW</th><th>Housing status</th></tr><tr><td>[OFF]</td><td>[ON]</td><td>–</td></tr><tr><td>[ON]</td><td>[OFF]</td><td>EJECT (Initial position)</td></tr><tr><td>[OFF]</td><td>[OFF]</td><td>Cassette intake</td></tr><tr><td>[ON]</td><td>[ON]</td><td>Ejecting Mini cassette</td></tr></table></td></tr>
<tr><td>SPL</td><td>SUP Lock SW status (during loading)</td><td>[ON] : Normal operation (TU side tape winding)
[OFF] : Lock release
(Tape begin detected, Supply side tape winding mode)</td></tr>
<tr><td>THIN</td><td>Thin tape detection</td><td>[ON] : THIN
[OFF] : NORMAL</td></tr>
</table>

Table 1.8.7 (1) MECHANISM INFO content

Parameter	Speed	Parameter	Speed
00	x 0	82	x 1.08
1F	x 0.03	83	x 1.11
40	x 0.10	84	x 1.12
53	x 0.20	85	x 1.16
61	x 0.30	91	x 2.00
6D	x 0.50	A9	x 5.00
7A	x 0.80	BD	x 9.00
7B	x 0.84	C0	x 10.0
7D	x 0.90	C4	x 12.0
7F	x 0.96	CC	x 15.0
80	x 1.00	D3	x 20.0
81	x 1.04		

Table 1.8.7 (2) Speed parameter

(2) Error code description

Error code	Display	Content of occurrence	Method of detection	Detected signal
0201	CONDENSATION ON DRUM	DEW detected	If DEW sensor detects condensation	IC302 (MSD) –detects voltage of pin 318
3200	LOADING FAILURE	Does not load	If mechanism position does not move in loading direction within 5 seconds	IC302-pin354 Rotary encoder output is detected
3300	UNLOADING FAILURE	Does not unload	If mechanism position does not move in unloading direction within 5 seconds	IC302-pin354 Rotary encoder output is detected
	No display	Does not intake	If intake is not completed within 5 seconds (Perform ejects without warning)	IC302 (MSD) –pin 84, CASSETTE SW is not detected within 5 seconds
4100	CASSETTE EJECT FAILURE	Does not eject	If eject is not completed within 5 seconds	IC302 (MSD) –pin 26, HOUSING SW is not detected within 5 seconds
5605	DEFECTIVE TAPE	Tape abnormality during intake	If begin and end sensor are ON after intake	IC302 (MSD) –pin 278, START sensor and pin 297, END sensor are both detected
5606	DEFECTIVE TAPE	Tape tear during unloading	If reel FG is excessive during unloading	IC302 (MSD) –pin 75, TU REEL FG is detected
5607	DEFECTIVE TAPE	Tape tear during loading	If reel FG is insufficient during loading	IC302 (MSD) –pin 75, TU REEL FG is detected
5608	DEFECTIVE TAPE	Tape tear on the loading side	If only supply side reel does not rotate during FWD/REV	IC302 (MSD) –pin 72, SUP REEL FG is not detected
5609	DEFECTIVE TAPE	Tape tear during slack takeup	If tape slack takeup is not completed within 10 seconds	IC302 (MSD) –pin 75, TU REEL FG and pin 72, SUP REEL FG are both detected
5702	TAPE END DET. ERROR	End sensor malfunction	If trailer tape sending is not completed within 3 seconds	IC302 (MSD) –pin 297, END sensor is detected for over 3 seconds
5802	TAPE BEGIN DET. ERROR	Begin sensor malfunction	If leader tape sending is not completed within 3 seconds	IC302 (MSD) –pin 278, START sensor is detected for over 3 seconds
7001	DRUM MOTOR FAILURE	Drum motor does not rotate	If drum motor does not rotate for over 4 seconds	IC302 (MSD) –pin 55, DRUM FG is not detected for over 4 seconds
7101	CAP MOTOR FAILURE	Capstan motor does not rotate	If capstan motor does not rotate for over 2 seconds	IC302 (MSD) –pin 56, CAP FG is not detected for over 2 seconds
7202	SUPPLY REEL FAILURE	SUP reel does not rotate	If SUP reel does not rotate for over 3 seconds	IC302 (MSD) –pin 72, SUP REEL FG is not detected for over 3 seconds
7203	SUPPLY REEL FAILURE	SUP side tape slack	If only SUP reel does not rotate during REV	IC302 (MSD) –pin 72, SUP REEL FG is not detected
7302	TAKE UP REEL FAILURE	TU reel does not rotate	If TU reel does not rotate for over 3 seconds	IC302 (MSD) –pin 75, TU REEL FG is not detected for over 3 seconds
7303	TAKE UP REEL FAILURE	TU side tape slack	If only TU reel does not rotate during FWD	IC302 (MSD) –pin 75, TU REEL FG is not detected
7305	TAKE UP REEL FAILURE	Tape slack during unloading	If TU reel FG is insufficient during unloading	IC302 (MSD) –pin 75, TU REEL sensor is detected
7401	REEL MOTOR FAILURE	Reel motor does not rotate	If reel motor does not rotate for more than 4 seconds during reel drive mode	IC302 (MSD) –pin 91, REEL FG is not detected for over 4 seconds

Table 1.8.7 (3) Error Code Contents

1.8.8 OTHERS menu

<table>
<tr><th>Item</th><th colspan="3">Parameter</th></tr>
<tr><td>MEMORY SW LOAD</td><td>[OFF]</td><td colspan="2">Standard setting</td></tr>
<tr><td></td><td>START</td><td colspan="2">Menu SW information is loaded from a store aria.</td></tr>
<tr><td>MEMORY SW SAVE</td><td>[OFF]</td><td colspan="2">Standard setting</td></tr>
<tr><td></td><td>START</td><td colspan="2">Menu SW information is saved to a store aria.</td></tr>
<tr><td>ALL RESET</td><td>[CANCEL]</td><td colspan="2">Standard setting</td></tr>
<tr><td></td><td>I,U,E,EC</td><td colspan="2">Resets all EEP-ROM data to default settings except adjustment data, hour meter data, and IEEE1394 ID data.
Default settings differ by market region.
I: for Japan, U: for USA, E: for EU, EC: for China</td></tr>
<tr><td>MEM.EDIT</td><td colspan="3">Contents of the EEP-ROM can be edited directly
ADR: Address (0-03FF) display
DATA: Display of data embedded in address shown by ADR
Operation procedure
① Press the ▲ or ▼ button to move the cursor to MEM or EDIT.
② Press the ▶ button to make the ADR parameter blink.
③ Press the ▲ or ▼ button to select the ADR parameter you want to edit. (Pressing ▲ or ▼ while keeping the "A.DUB" button pressed will cause it to count up or down in increments of 10.)
④ Press the ▶ button to make the DATA parameter blink.
⑤ Press the ▲ or ▼ button to make changes in the DATA parameter.
⑥ Press the [SET] button and confirm the DATA parameter. (The parameter stops blinking)

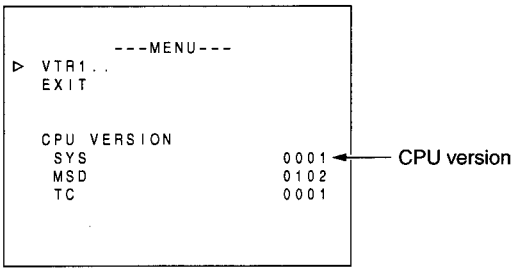
(NOTE)
The EEPROMs store important data for the system and careless rewriting may make normal operation of the system impossible. Do not use this function for purposes other than the IEEE1394 ID date that is described.</td></tr>
<tr><td>OPERATION CHECK</td><td>[CANCEL]</td><td colspan="2">Standard setting</td></tr>
<tr><td></td><td>EXECUTE</td><td colspan="2">Enters the OPERATION check mode. All LEDs turn on. By operating the relevant buttons and slide switches, the operation of the buttons and LEDs can be checked as shown in the following list. To exit from this mode, turn OPERATE to OFF.
<table>
<tr><th>Button/Switch</th><th colspan="2">Display coments</th></tr>
<tr><td>OPERATE</td><td colspan="2">Power ON/OFF SW</td></tr>
<tr><td>EJECT</td><td colspan="2">EJECT LED goes out</td></tr>
<tr><td>STOP</td><td colspan="2">STOP LED goes out</td></tr>
<tr><td>FF</td><td colspan="2">FF LED goes out</td></tr>
<tr><td>PLAY</td><td colspan="2">PLAY LED goes out</td></tr>
<tr><td>REW</td><td colspan="2">REW LED goes out</td></tr>
<tr><td>PAUSE</td><td colspan="2">PAUSE LED goes out</td></tr>
<tr><td>REC</td><td colspan="2">REC LED goes out</td></tr>
<tr><td>A.DUB</td><td colspan="2">A.DUB LED goes out</td></tr>
<tr><td rowspan="3">INPUT SELECT</td><td>DV</td><td>"DV" is displayed on the LCD or on screen</td></tr>
<tr><td>LINE</td><td>"LIN" is displayed on the LCD or on screen</td></tr>
<tr><td>Y/C</td><td>"YC" is displayed on the LCD or on screen</td></tr>
<tr><td rowspan="2">REMOTE/LOCAL</td><td>REMOTE</td><td>"REM" is displayed on the LCD or on screen</td></tr>
<tr><td>LOCAL</td><td>"LOC" is displayed on the LCD or on screen</td></tr>
<tr><td rowspan="3">AUDIO OUTPUT</td><td>CH-1/2</td><td>"CH1" is displayed on the LCD or on screen</td></tr>
<tr><td>MIX</td><td>"MIX" is displayed on the LCD or on screen</td></tr>
<tr><td>CH-3/4</td><td>"CH3" is displayed on the LCD or on screen</td></tr>
<tr><td rowspan="10">Buttons of left side</td><td>MENU</td><td>"MENU" is displayed on the LCD or on screen</td></tr>
<tr><td>▲</td><td>"UP" is displayed on the LCD or on screen</td></tr>
<tr><td>RESET</td><td>"RESET" is displayed on the LCD or on screen</td></tr>
<tr><td>◀</td><td>"LEFT" is displayed on the LCD or on screen</td></tr>
<tr><td>SET</td><td>"SET" is displayed on the LCD or on screen</td></tr>
<tr><td>▶</td><td>"RIGHT" is displayed on the LCD or on screen</td></tr>
<tr><td>HOLD</td><td>"HOLD" is displayed on the LCD or on screen</td></tr>
<tr><td>▼</td><td>"DOWN" is displayed on the LCD or on screen</td></tr>
<tr><td>CUE UP</td><td>"CUEUP" is displayed on the LCD or on screen</td></tr>
<tr><td>REC LEVEL VOLUME</td><td colspan="2">AUDIO level indicator on the LCD is changed in accordance with these volumes.</td></tr>
</table></td></tr>
<tr><td>REAR SER. SEL</td><td>[SERIAL]</td><td colspan="2">REAR terminal is used as the SERIAL REMOTE terminal.</td></tr>
<tr><td></td><td>TCCS</td><td colspan="2">REAR terminal is used as the TCCS terminal (factory use)
By pressing REC + ADB simultaneously while powering up, the forced TCCS mode is engaged.</td></tr>
</table>

□ is default setting when shipped from factory

Table 1.8.8 OTHERS Menu Setting Items List

1.8.9 CPU version menu

Displays version of SYSCON CPU and MSD (VCR) CPU.



Firmware version

SYSCON	PLSL1153-Vx-xx
MSD (VTR)	PLSL1152-Vx-xx
TC	PLSL1150-Vx-xx

Fig. 1.8.9 CPU Version Display

1.8.10 EEP-ROMS

(1) EEP-ROMS and stored data

BR-DV6000 is equipped with two EEP-ROMS for the purpose of data stored, and their contents are as per the following list. When the circuit board or EEP-ROM is replaced, there will be no data in the EEP-ROM. When the unit is powered up, and the SYSCON CPU or MSD CPU recognizes that there is no data in the EEP-ROM, it automatically writes initial data into the EEP-ROM to initialize it. The memory data shown in Table 1.8.10 will all be reset back to default settings, so it will be necessary to perform necessary adjustments and settings again.

EEP-ROM	Circuit board name	Memory data content
IC301	DV/CPU circuit board (MSD CPU)	• Adjusted data (DVC section: Adjustment menu No. 100-121) • IEEE1394 ID data • HOUR METER data
IC323	SYS/AUD circuit board (SYSCON CPU)	• Adjusted data (VCR section: Adjustment menu No. 207-257) • User menu and Service menu settings data • ERROR HISTORY

Table 1.8.10 EEP-ROM Memory Data Content

(2) IEEE1394 ID setting method

IEEE1394 equipped units have an ID, as defined by the IEEE1394 standard, stored in the internal EEP-ROM (IC 301). At the time of production, the ID assigned for each individual unit are written into the EEP-ROM, and a sticker bearing the ID is affixed inside the unit. When the EEP-ROM (DV/CPU board assembly) or DV/CPU board assembly is replaced, the ID needs to be set again.

Procedure for setting IEEE1394 ID

The ID is an 8 digit, hexadecimal code, with 1 high Byte being the model code, and 3 low Bytes being individual to the unit. The model code is automatically initialized, so only the lower 3 Bytes of individual code need to be set manually. Go from Service Menu → OTHERS Menu → MEM. EDIT (Memory Edit) to select the address in the ID data section and make the setting directly. The 3 low Byte address is as follows. Make the setting while confirming the ID printed on the label (ID: 45xxxxxx) pasted on the inside of the BR-DV6000 (See Fig. 1.8.10).

IEEE1394 ID data : 45 xx xx xx (Indicates on the label of BR-DV6000 inside.)

⇩ ⇩ ⇩

Address data "391" "392" "393"

Setting procedure

(1) Press the ▲ or ▼ button to move the cursor to MEM. EDIT.
(2) Press the ▶ button to make the ADR parameter blink.
(3) Press the ▲ or ▼ button to select ADR parameter "391".
(4) Press the ▶ button to make the DATA parameter blink.
(5) Press the ▲ or ▼ button to set ADR = "391" for the ID.
(6) Press the [SET] button to confirm the DATA parameter.
(7) In the same manner, select ADR parameter "392" and "393" to set the ID data.

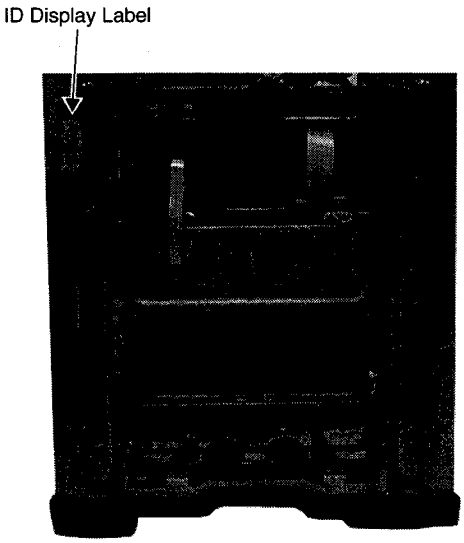


Fig. 1.8.10 ID Label Attachment Position

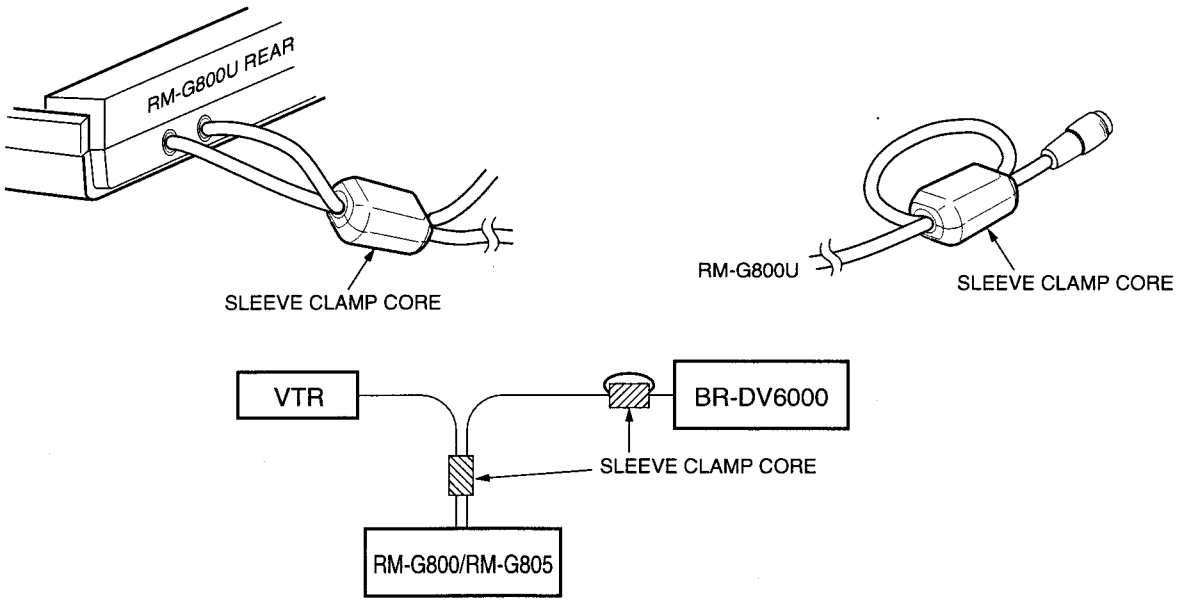
1.9 EDITING FUNCTION

Editing system	Edit mode(Analog)	Edit mode(DV)	Preview(PB/EE switch)	Capstan bump	Split editing	Editing accuracy	Minimum editing duration	Compatibility
JVC bus I/F with editing controller	Assemble Insert V Insert V+A1and/orA2 Insert A1and/orA2 Insert TC	Assemble Insert V Insert V+A1and/orA2 Insert A1and/orA2	No (Preview does not work)	No	No	+/-1 frame	10 frames	RM-G800/G805 with SR-S368/388 mode
RS-422 I/F with editing controller	Assemble Insert V Insert V+A1and/orA2 Insert A1and/orA2 Insert TC	Assemble Insert V Insert V+A1and/orA2 Insert A1and/orA2	Yes In point:4 frames advance Out point:4 frames delay (Analog only)	Yes	No	+/-0 frame	10 frames	RM-G820 RM-450/PVE-500 FXE-100/120 AG-A850
RS-422 I/F with NLE system	Assemble Insert V Insert V+A1and/orA2 Insert A1and/orA2	Assemble Insert V Insert V+A1and/orA2 Insert A1and/orA2	No (Preview does not work)	No	No	+/-0 frame	10 frames	Avid XpressDV 3.5

Table 1-9 Editing Performance

NOTE
When the RM-G800 remote controllre is used, the BR-DV6000 may cause radio interference.
In this case, set the clamp core to the following position of controller cable.

1. Bundle up two cables of RM-G800/G805 side together and attach a sleeve clamp core.
2. Coil the cable (BR-DV6000 side) once that is from the RM-G800 connector, then attached the sleeve clamp core.



3. If an extension cable(VC-8030U) is used, attached the sleeve clamp core at two locations, one on the two cables of the RM-G800 side and one on the BR-DV6000 side.

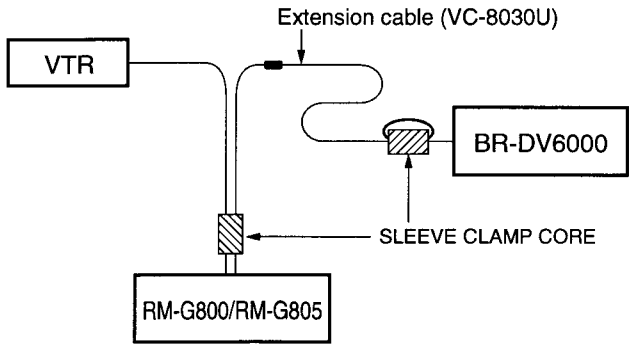


Fig. 1-9 Attach the SLEEVE CLAMP CORE

SECTION 2
MECHANICAL ADJUSTMENTS

2.1 BEFORE ADJUSTMENTS

2.1.1 Precautions

1) Be sure to apply a screw securing torque when attaching a part.
   The securing torque should be 0.14 N/m (1.4 kgf/cm) unless otherwise specified.
2) Always unplug the power cord of the set before attaching, removing or soldering a part.
3) When unplugging a connector, do not pull the wire but grasp the connector body.
4) Do not make an adjustment or rotate a potentiometer blindly while the source of trouble is not identified.
5) Before adjusting electrical circuitry, be sure to wait for more than 10 minutes after turning the power on.

2.1.2 Measuring instruments required for adjustments

Instrument	Condition
Oscilloscope	Calibrated instrument with measuring bandwidth of 100 MHz or more.

Table 2-1-1

2.1.3 Equipment required for adjustments

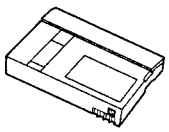
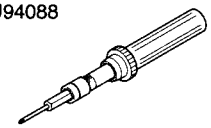
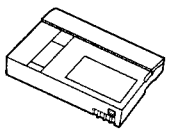
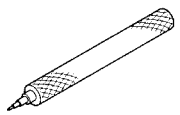
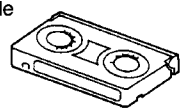
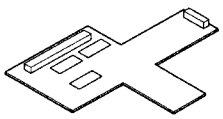
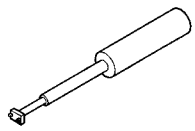
1 Alignment tape	5 Torque screwdriver
MC-1 (NTSC) MC-2 (PAL) 	YTU94088  YTU94088-003  Replaceable bit (long type)
2 DV tape	6 Slit washer attaching tool
For use in self-recording/playback. (60 ME) (270 ME) 	YTU94121A 
3 Cassette torque meter	7 REWRITE board (Connector board)
YTU94150A (or YTU94151A) for FWD mode KLJ0312 for REV mode 	CK453800B 
4 Guide screwdriver	8 Chip IC replacement tool
YTU94085 	PTS40844-2 

Table 2-1-2

2.2 DISASSEMBLY/ASSEMBLY OF THE MECHANISM

2.2.1 Mechanism position for disassembly/assembly

The mechanism should basically be disassembled and assembled in the unloading end (No Cassette) position.
However, other mechanism position is sometimes required for disassembly or assembly. In such a case, the required position is specified every time in the descriptions in 2.6, "Replacement of major parts".

2.2.2 Mode transition

To change the mechanism mode manually, rotate the emergency gear of the mode motor assembly shown in Fig. 2.2.1 as below.
The mechanism mode can be changed by applying 3 V DC to the mode motor electrodes.
The MINI and STD reel positions can be changed over by manually sliding the reel change plate.

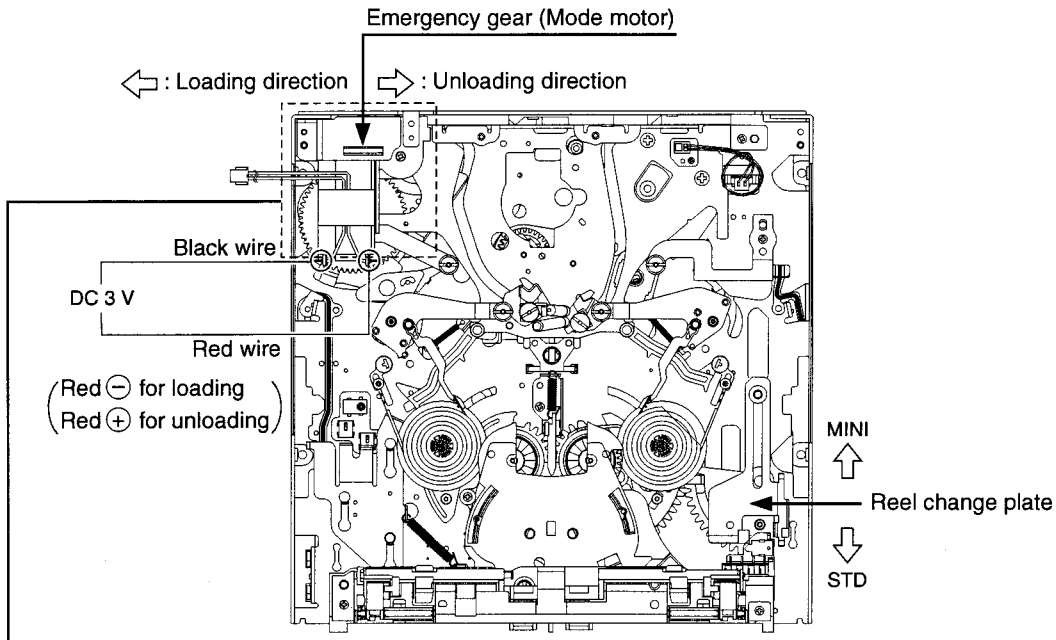


Fig. 2.2.1

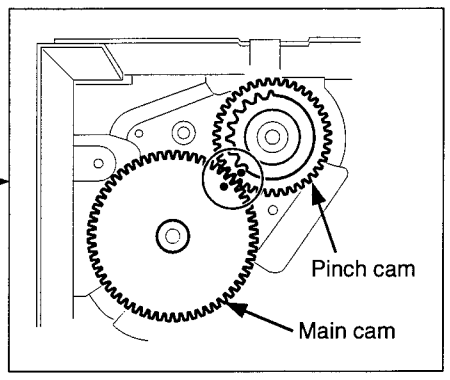


Fig. 2.2.2

Important:
When turn the Emergency gear (Mode) to Unloading direction by hand until the hole of the Main cam and the hole of the pinch cam in a straitline connecting. (refer to Fig.2.2.2)
Please do not turn the Emergency gear (Mode) more than the above.

2.3 MECHANISM TIMING CHART

See Table 2-3-1 below.

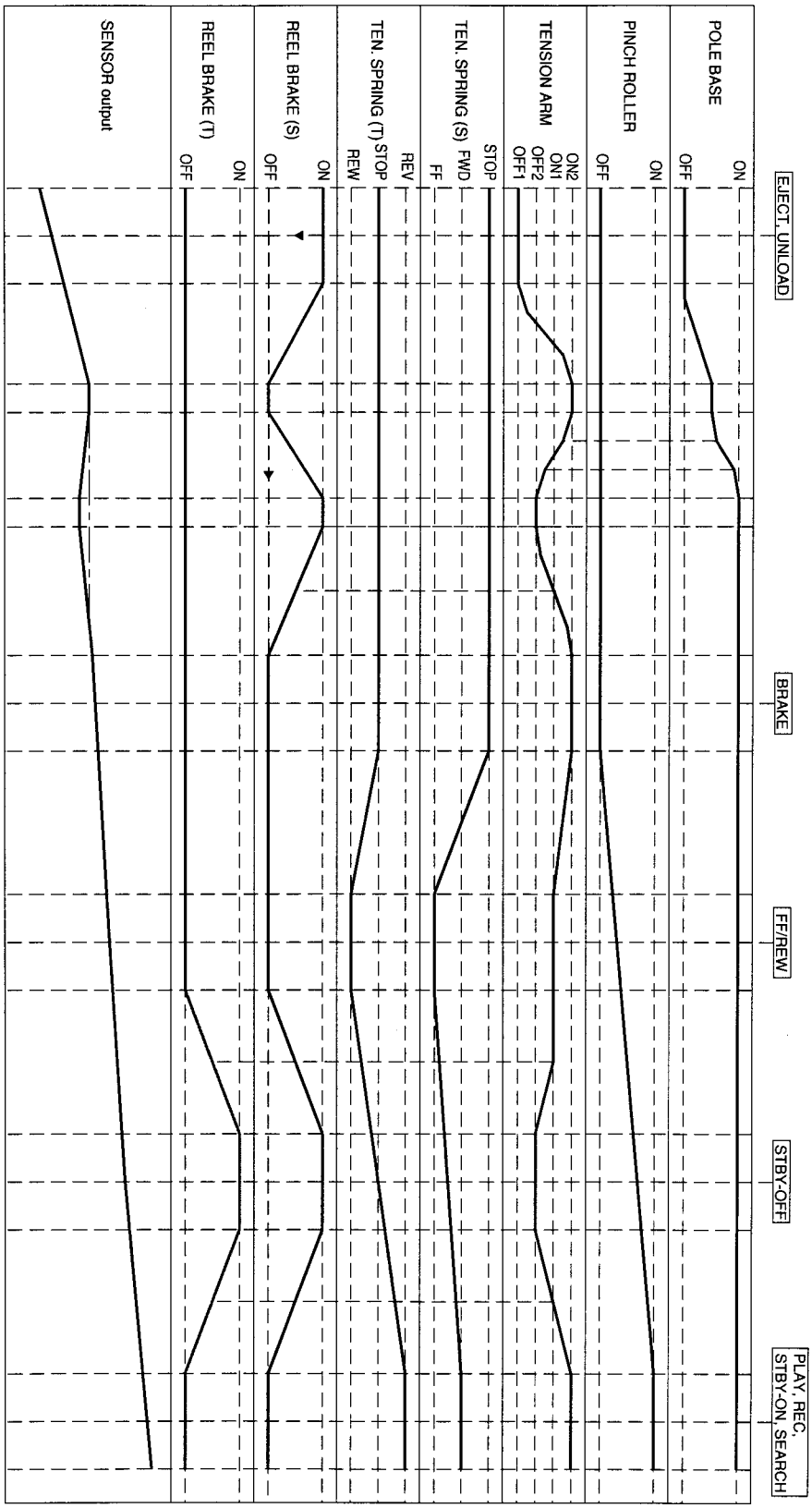


Table 2-3-1

2.4 MAINTENANCE AND INSPECTION OF MAJOR PARTS

Periodical inspection and maintenance are requisite to maintain the initial performance and reliability of the product. Table 2-4-1 (Maintenance & Inspection List) has been compiled assuming standard operating conditions, and the specifications in the table are greatly variable depending on the actual operating environment and conditions. Remember that, if the maintenance and inspection are not enforced properly, the operating hours of the product will not only reduce considerably but other unfavorable influences may produce.

Rubber parts may deform or degrade after long period of storage even if they are not used in this period.

The service life of the drum is variable depending on the tape used and operating environment.

2.4.1 Layout of Major Parts

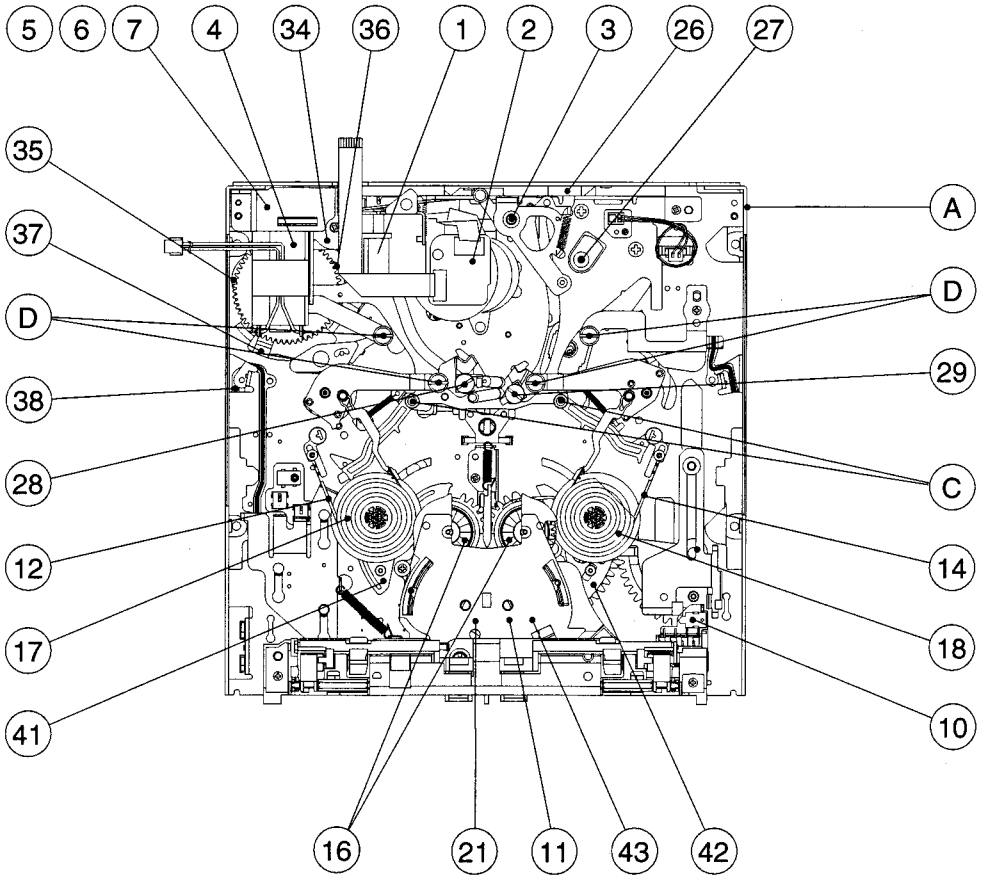


Fig. 2.4.1

2.4.2 Maintenance/inspection table

1)Replace the whole mechanism assembly in the 6000H maintenance.

2)The SUP/TU tension arm assemblies, sub-deck assembly (ENT. G. roller section) and EGR ARM assembly have undergone perpendicularity management after being assembled. If any of the above assemblies needs replacement, the whole mechanism assembly should be replaced.

	Part Name	Symbol No.	Operating Hours (DRUM Hour Meter)												Ref. Section
			500	1000	1500	2000	2500	3000	3500	4000	4500	5000	5500	6000	
1	㉘ SUP P. BASE ASSEMBLY	M3 66	★	○★	★	●	★	○★	★	●	★	○★	★	—	2.6.17
2	㉙ TU P. BASE ASSEMBLY	M3 67	★	○★	★	●	★	○★	★	●	★	○★	★	—	2.6.17
3	Ⓓ GUIDE ROLLER	M3 30	★	○★	★	●	★	○★	★	●	★	○★	★	—	2.4.1
4	Ⓓ COLLER	M3 31	★	○★	★	●	★	○★	★	●	★	○★	★	—	2.4.1
5	Ⓓ FRANGE	M3 32	★	○★	★	●	★	○★	★	●	★	○★	★	—	2.4.1
6	③ PINCH R.ARM ASSEMBLY	M3 4	★	○★	★	●	★	○★	★	●	★	○★	★	—	2.6.3
7	② DRUM ASSEMBLY	M3 80	★	★	★	●	★	★	★	●	★	★	★	—	2.6.2
8	㉗ CAPSTAN SHAFT	M3 64	★	★	★	★	★	★	★	★	★	★	★	—	
9	㉗ CAPSTAN MOTOR	M3 64	—	—	—	—	—	—	—	—	—	○	—	—	2.6.16
10	㉑ REEL MOTOR	M3 24	—	—	—	—	—	—	—	—	—	○	—	—	2.6.13
11	⑩ M.I.C. terminal	M3 51	★	★	★	★	★	★	★	★	★	★	★	—	
12	⑩ M.I.C. CONNECTOR	M3 51	★	★	★	★	★	★	★	★	★	★	★	—	2.6.6
	㊸ FPC 1 ASSEMBLY	M3 49	—	—	—	—	—	—	—	—	—	—	—	—	2.6.25
	⑪ IDLER COVER	M3 52	—	—	—	—	—	—	—	—	—	—	—	—	2.6.7
13	Ⓒ CASSETTE GUIDE PIN		★	★	★	★	★	★	★	★	★	★	★	—	2.4.1
15	④ MODE MOTOR ASSEMBLY	M3 47	—	—	—	—	—	—	—	—	—	—	—	—	2.6.4
16	㉟ MAIN CAM	M3 12	—	—	—	—	—	—	—	—	—	—	—	—	2.6.20
17	⑥ GEAR 1	M3 44	—	—	—	—	—	—	—	—	—	—	—	—	2.6.4
18	⑦ GEAR 2	M3 45	—	—	—	—	—	—	—	—	—	—	—	—	2.6.4
19	⑤ WORM WHEEL	M3 46	—	—	—	—	—	—	—	—	—	—	—	—	2.6.4
20	㉞ PINCH CAM GEAR	M3 13	—	—	—	—	—	—	—	—	—	—	—	—	2.6.20
21	㉖ PINCH PLATE	M3 17	—	—	—	—	—	—	—	—	—	—	—	—	2.6.16
22	㊳ CTL. PLATE	M3 9	—	—	—	—	—	—	—	—	—	—	—	—	2.6.22
23	㊲ CTL. ARM ASSEMBLY	M3 56	—	—	—	—	—	—	—	—	—	—	—	—	2.6.21
24	㊱ ARM GEAR	M3 11	—	—	—	—	—	—	—	—	—	—	—	—	2.6.21
25	㊶ SUP REEL PLATE ASSEMBLY	M3 54	—	—	—	—	—	—	—	—	—	—	—	—	2.6.24
26	㊷ TU REEL PLATE ASSEMBLY	M3 55	—	—	—	—	—	—	—	—	—	—	—	—	2.6.24
27	⑰ SUP REEL DISK ASSEMBLY	M3 35	—	○	—	●△	—	○	—	●△	—	○	—	—	2.6.10
28	⑱ TU REEL DISK ASSEMBLY	M3 36	—	○	—	●△	—	○	—	●△	—	○	—	—	2.6.10
29	⑯ CONN. GEAR ASSEMBLY	M3 37	—	○	—	●△	—	○	—	●△	—	○	—	—	2.6.10
30	⑫ SUP TENSION BAND ASSEMBLY	M3 38	—	○	—	●	—	○	—	●	—	○	—	—	2.6.8
31	⑭ TU TENSION BAND ASSEMBLY	M3 39	—	○	—	●	—	○	—	●	—	○	—	—	2.6.9
32	⑪ IDLER ARM ASSEMBLY	M3 40	—	○	—	●	○	○	—	●	—	○	—	—	2.6.7
33	① HEAD CLEANAER	M3 5A	○	●	○	●	—	●	○	●	○	●	○	—	2.6.2
34	Ⓑ CASSETTE HOUSING ASSEMBLY	M3 90	—	—	—	—	—	—	—	—	—	—	—	—	2.6.1
35	Ⓐ MECHANISM ASSEMBLY	M3 1	—	—	—	—		—	—	—	—	—	—	●	

★: Clean with ethyl alcohol. ○: Check and replace if required. ●: Replace. △: Oil the shaft.
After replacing a part, apply lubricant to the required points.

Table 2-4-1

2.4.3 Cleaning

The tape transport system should be cleaned periodically. Be sure to clean the tape transport system upon receipt of a set for servicing, etc. To clean use a good quality fine-textured cloth moistened with ethyl alcohol.

1) When the video head is stained, the playback output level decreases and a read error will not be able to be corrected by the error correction. If this occurs, block noise appear on the monitor, the audio will not be output, and the video output will eventually be lost when the video head becomes extremely dirty. To clean the drum, while applying cleaning cloth (service part No. : KSMM-01) or high quality paper gently to the upper drum, rotate the upper drum in the normal (counterclockwise) rotation direction.
The dirt deposited on the video head can be removed by playing a cleaning tape.

CAUTION

Do not move the cleaning paper while applying it to the video head. Otherwise, the video head may be damaged.

2) The lower drum tends to attract dirt on the leader section and the linearity cannot be guaranteed when the lower drum becomes extremely dirty. Particularly, the tape inlet and output sections gather dirt easily, causing symptoms such as dropout of the reproduced FM signal, deterioration of video quality and lack of audio output. In order to clean the leader section, rub a a cotton swab gently along its edge.

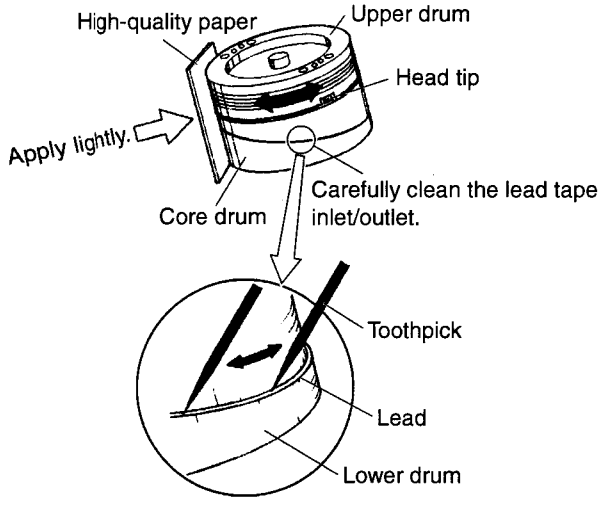


Fig. 2.4.2

3) Stain of the tape transport system leads to tape damage. When magnetic dust or dirt penetrates inside the rollers, a rotation malfunction may affect the video. Clean the tape transport parts carefully using a cleaning cloth or cotton swab moistened with ethyl alcohol.

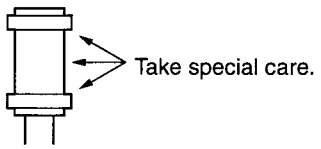


Fig. 2.4.3

2.4.4 Oiling and Greasing

Table 2-4-2 shows the oil and greases used with the set.

Classification	Name	Part No.
Oil	Cosmo Hydro HV100	YTU94027
Grease	Maltemp SH-P	KYODO-SH-P
	Hanal	RX-410R

Table 2-4-2

1) Oiling should be performed periodically. Oil the shafts by referring to the maintenance table.
2) After replacing a part, grease the required points. For the parts to be greased see the exploded diagram in chapter 5, "DISASSEMBLY DRAWINGS AND PARTS LIST".
3) As Hanal separates over time, be sure to mix it (shake) well before use.
4) Take care not to leave grease or oil on the tape transport parts which come into contact with the tape or on the brake pads.
5) Take care not to apply too much oil or grease. The standard oiling quantity is one drop and the standard greasing quantity is the quantity with which the grease does not overflow.

2.5 PERIODICAL MAINTENANCE

Perform maintenance at the correct times in accordance with the maintenance table.
Fig. 2-5-1 shows the flow chart of periodical maintenance procedures at different operating hours.

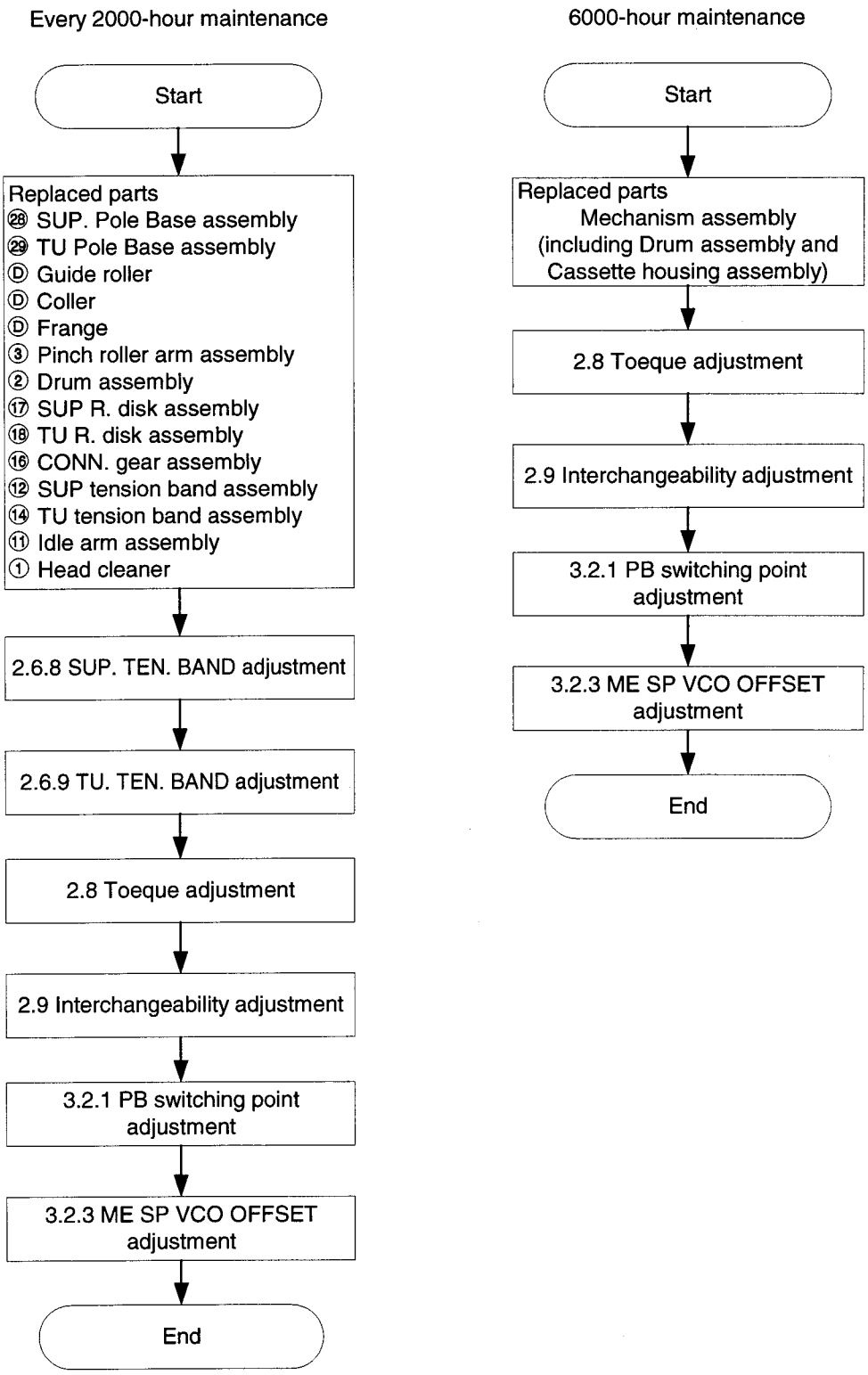


Fig. 2.5.1

No.	Item	Ref. Illustration	Procedure

2.6 REPLACEMENT OF MAJOR PARTS

- The disassembly procedures shown in oder of disassembly. To remove the part, it is necessary to have completed all the stages before it.
- Always use a torque driver and the specified securing torque to tighten screws.
- Position the mechanism to the unloading end (No Cassette) mode before disassembly or assembly unless otherwise specified.

1 Ⓑ Cassette housing assembly

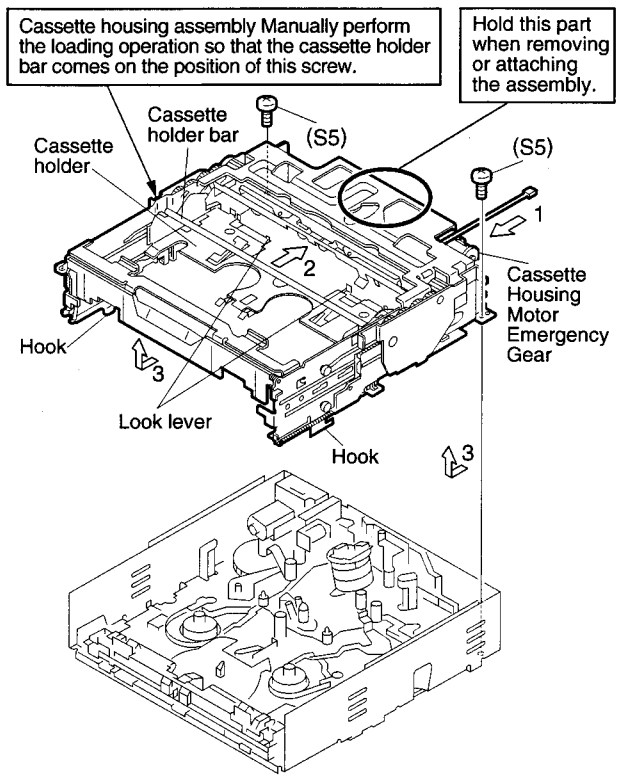


Fig. 2.6.1

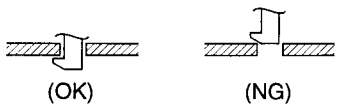
<Disassembly>

1) Turn the cassette housing motor emergency gear in the direction of the arrow, while pushing the lock lever in the direction of arrow 2, then move the cassette holder so that the cassette holder bar comes in the position shown in the illustration.
2) Remove two screws (S5), slide the cassette housing toward the front and remove it by releasing the lock on the Hook function as shown by arrow 3.

<Assembly>

1) Reverse the disassembly procedure.
2) Screws (S5) should be tightened using a securing torque of 0.2 N/m (2 kgf/cm).

Note:
Be sure to attach the cassette housing in the same position as when it was removed.



Hook function of the Cassette hausing.

2 ① Head cleaner assembly/ ② Drum assembly

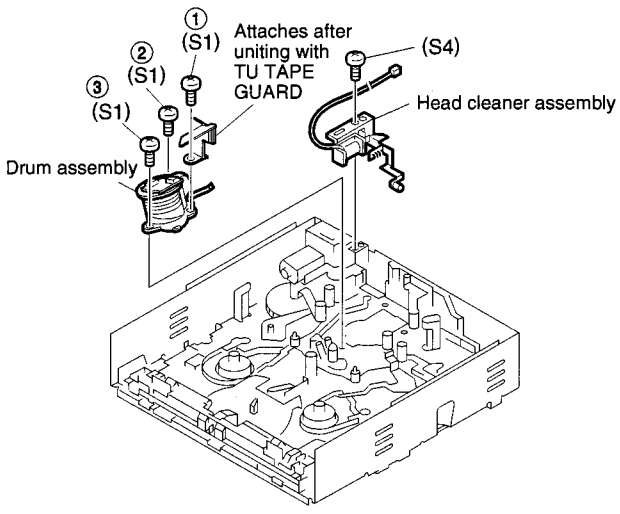


Fig. 2.6.2

<Disassembly>

Head cleaner assembly:

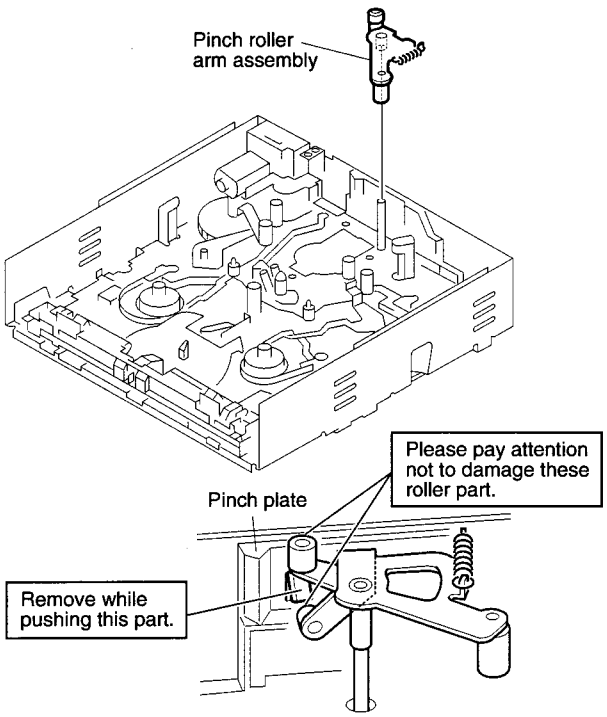
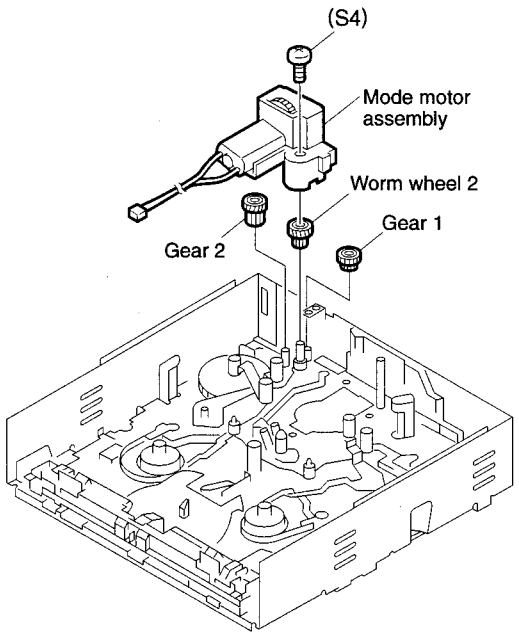
1) Remove the screw (S4) and remove the head cleaner assembly.

Drum assembly:

1) Remove the Drum FPC from the DV/CPU circuit board CN107.
2) Remove the screw (S1) and remove the drum assembly.

<Assembly>

1) Reverse the disassembly procedure.
2) Drum section screws (S1) should be tightened in order of ① — ③ and using a securing torque of 0.04 N/m (0.4 kgf/cm).

No.	Item	Ref. Illustration	Procedure
3	③ **Pinch roller arm assembly**	 **Fig. 2.6.3**	**<Disassembly>** 1) While pushing the hook on the pinch plate, lift the pinch roller arm assembly upward to remove. **<Assembly>** 1) Reverse the disassembly procedure.
4	④ **Mode motor assembly/** ⑤ **Worm wheel 2/** ⑥ **Gear 1/** ⑦ **Gear 2**	 **Fig. 2.6.4**	**<Disassembly>** **Mode motor assembly:** 1) Remove the screw (S4) and remove the mode motor assembly. **Worm wheel 2 & gears 1 and 2:** 1) Lift the worm wheel 2 upward to remove. 2) Lift the gear 1 upward to remove. 3) Lift the gear 2 upward to remove. **<Assembly>** 1) Reverse the disassembly procedure. **Note:** **Worm wheel 2 and gears 1 and 2 do not require the mechanism phase adjustment.**

No.	Item	Ref. Illustration	Procedure

5 **Cassette guide assembly/ M.I.C guide**

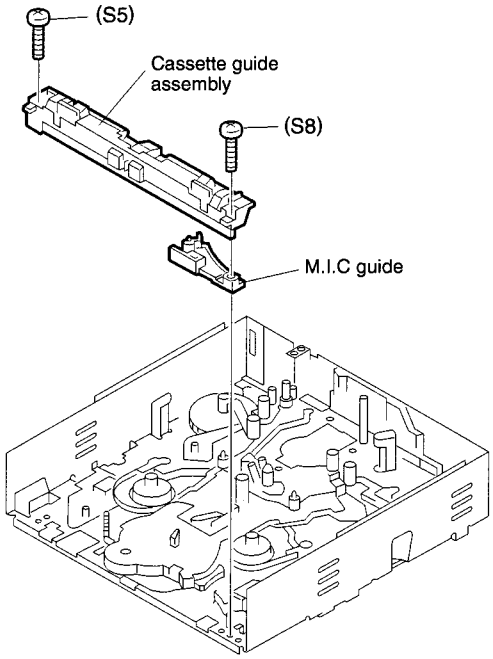


Fig. 2.6.5

<Disassembly>

Cassette guide assembly:

1) Remove the screws (S5) (S8) and remove the cassette guide assembly.

M.I.C guide:

1) While pushing the hook on the M.I.C guide, lift it upward to remove.

<Assembly>

1) Reverse the disassembly procedure.

Note:
When install the M.I.C guide, the reel position sould be standard cassette position.

6 **⑩ M.I.C connector**

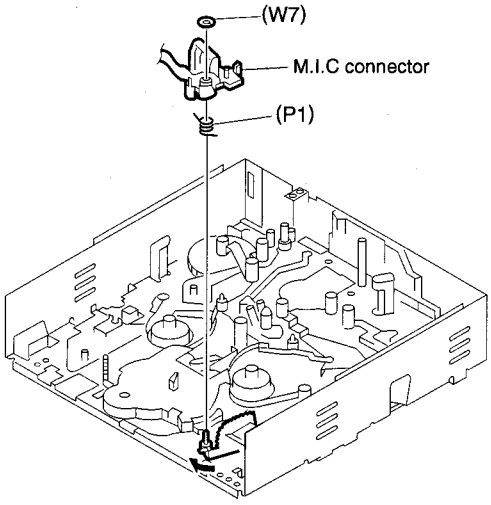


Fig. 2.6.6 (1)

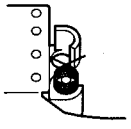


Fig. 2.6.6 (3)

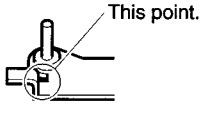


Fig. 2.6.6 (4)

<Disassembly>

1) Slide the reel change plate in the direction of arrow 1 to place the reel in the mini-cassette position.
2) Remove the slit washer (W7) and remove the M.I.C connector.
3) Remove the spring (P1).

<Assembly>

1) Reverse the disassembly procedure.
2) Attach the spring (P1) to the M.I.C connector. (See Fig. 2.6.6. (3))
3) Hang a point of the spring (P1) on to a part of Fig. 2.6.6. (4) and attach it.

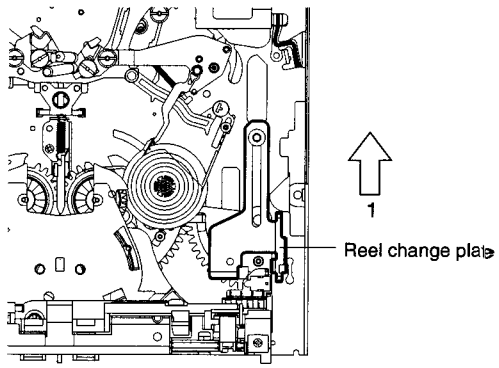


Fig. 2.6.6 (2)

No.	Item	Ref. Illustration	Procedure

7 **⑪ Idler arm assembly**

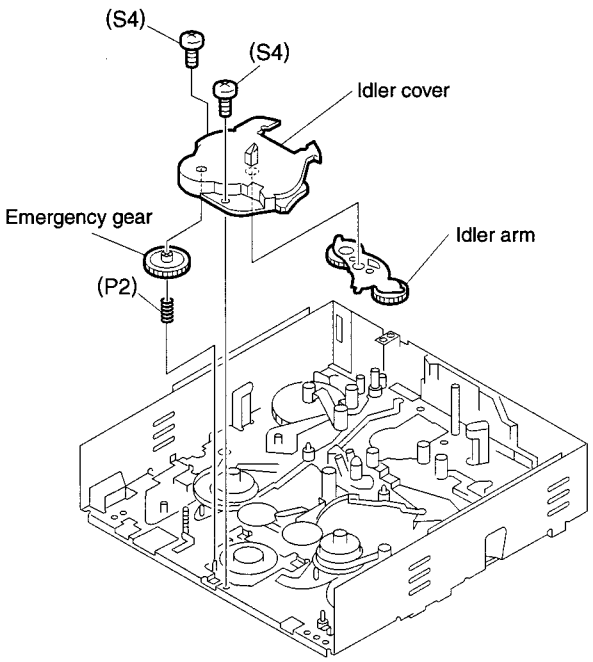


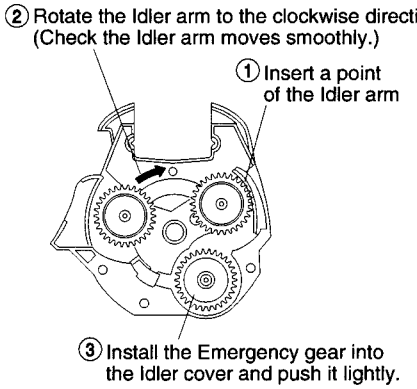
Fig. 2.6.7

<Disassembly>

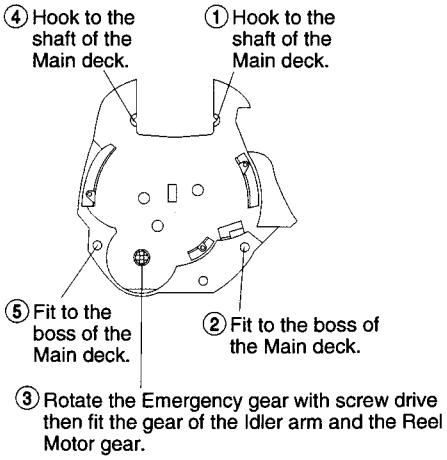
1) Remove the two screws (S4) and remove the idler cover.
2) Remove the idler arm.
3) Remove the emergency gear.
4) Remove the spring (P4).

<Assembly>

1) Attach the Idler arm and the Emergency gear into the Idler cover.



2) Attach the Idler arm assembly onto the Main deck.



Caution : When install the Idler arm assembly into the main deck, if the gear of the Idler arm and Reel Motor gear does not fit, these geare may damaged.

No.	Item	Ref. Illustration	Procedure

8 **⑫ Supply tension band assembly/ Supply tension arm assembly**

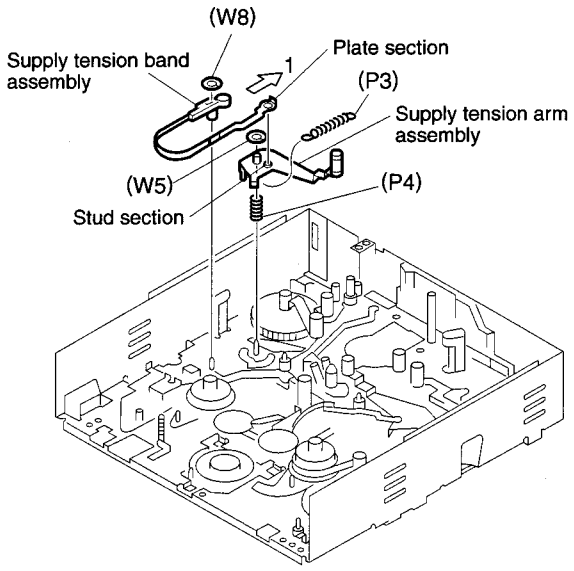


Fig. 2.6.8 (1)

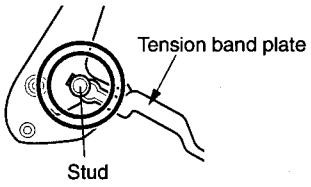


Fig. 2.6.8 (2)

<Disassembly>

Supply tension band assembly:

1) Remove the slit washer (W8).
2) Slide the tension band plate in the direction of arrow 1 and remove the plate from the tension arm stud section.

Supply tension arm assembly:

1) Remove the slit washer (W5) and remove the supply tension arm assembly.
2) Unhook the spring (P3) from the tension control arm. (See Fig. 2.6.8 (3))
3) Remove the spring (P4).

<Assembly>

1) Reverse the disassembly procedure.

Notes:

- **Pinch the tension band plate and tension arm stud together and fix them. Be careful not to bend the plate during the above. (See ◎ in Fig. 2.6.8 (2))**
- **The supply tension arm assembly has undergone perpendicularity management after being assembled, so when replacement is required, it will be necessary to replace the entire mechanism assembly.**

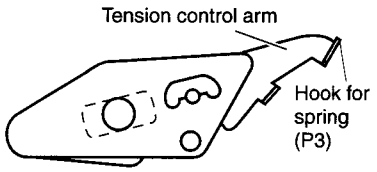


Fig. 2.6.8 (3)

<Supply tension band position adjustment>

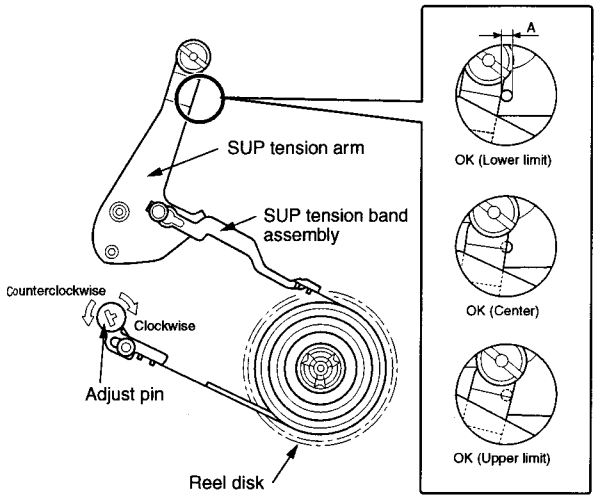


Fig. 2.6.8 (4)

1) With the cassette housing removed, place the reel in the mini-cassette position. (See Fig. 2.6.6 (2))
2) Manually rotate the emergency gear of mode motor counterclockwise (See section 2.2.2, "Mode transition".) to perform loading untill the loading end position.
3) Ensure that the right edge of the tension arm is placed within the range of reference hole A on the sub-deck.
4) If the right edge is not within the above range, adjust by turning the adjust pin.

Clockwise rotation : to lower limit
Counterclockwise rotation : to upper limit

No.	Item	Ref. Illustration	Procedure

9 ⑭ **Take-up tension band assembly/ Take-up tension arm assembly**

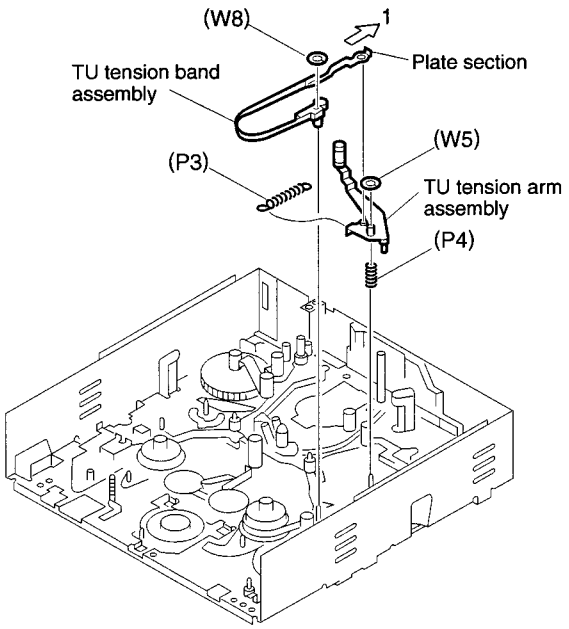


Fig. 2.6.9 (1)

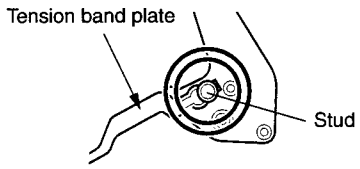


Fig. 2.6.9 (2)

<Disassembly>

Take-up tension band assembly:

1) Remove the slit washer (W8).
2) Slide the plate section of tension band in the direction of arrow 1 and remove the plate from the tension arm stud.

Take-up tension arm assembly:

1) Remove the slit washer (W5) and remove the supply tension arm assembly.
2) Unhook the spring (P3) from the tension control arm. (See Fig. 2.6.9 (3))
3) Remove the spring (P4).

<Assembly>

1) Reverse the disassembly procedure.

Notes:

- **Pinch the tension band plate and tension arm stud together and fix them. Be careful not to bend the plate during the above. (See ◎ in Fig. 2.6.8 (2))**
- **The take-up tension arm assembly has undergone perpendicularity management after being assembled, so when replacement is required, it will be necessary to replace the entire mechanism assembly.**

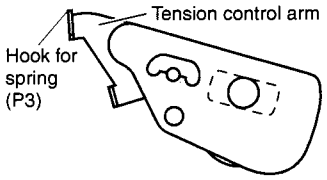


Fig. 2.6.9 (3)

<Take-up tension band position adjustment>

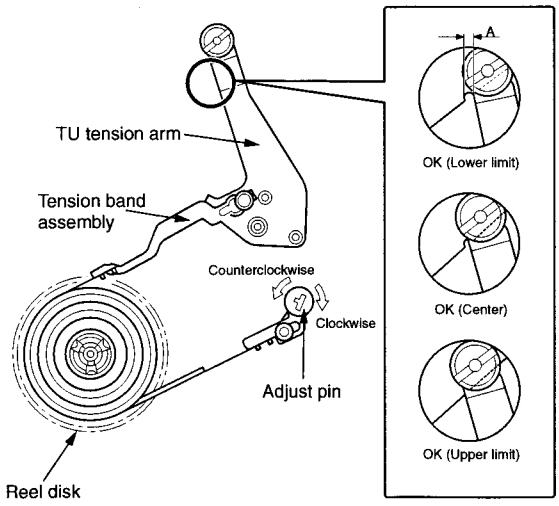
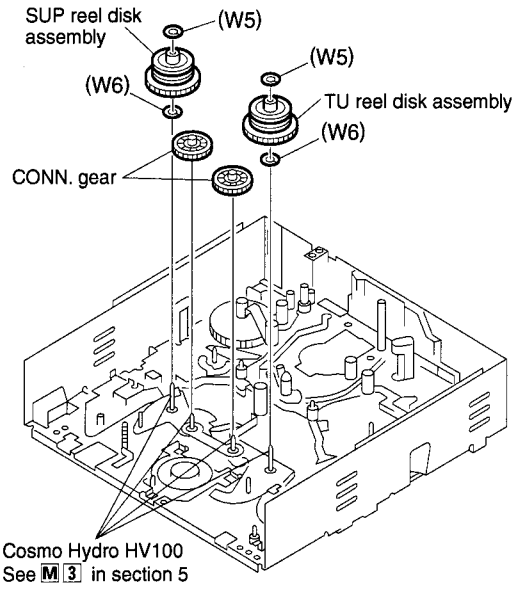
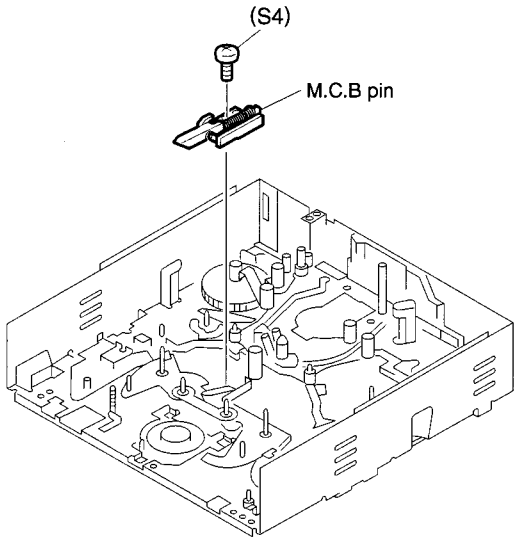
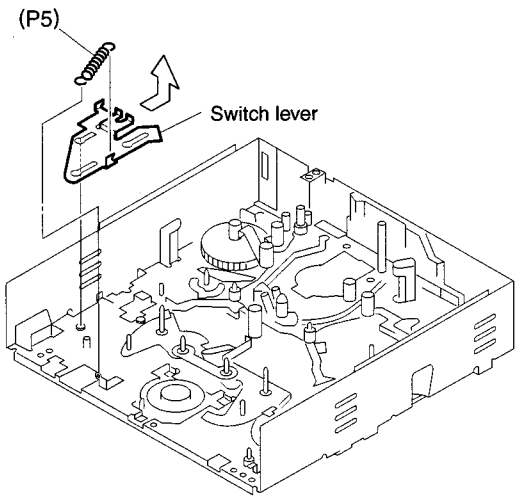
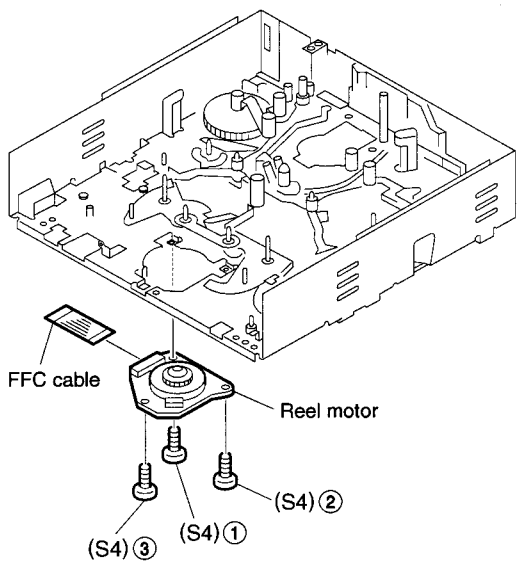


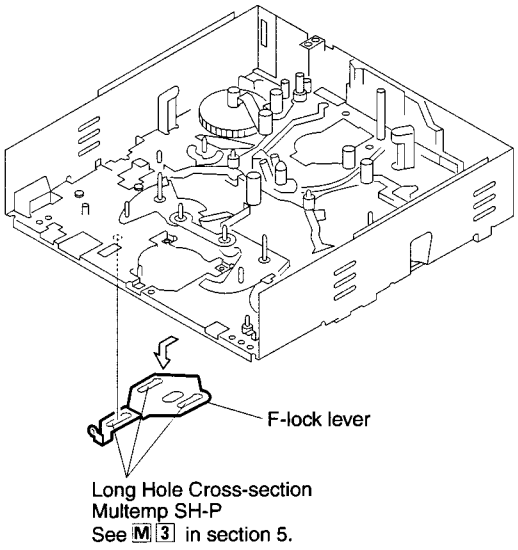
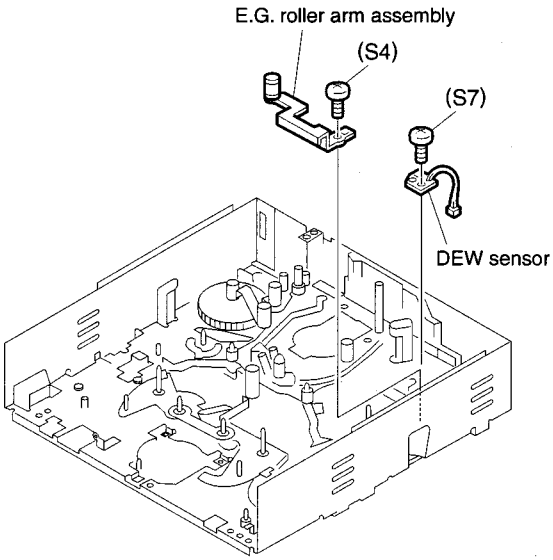
Fig. 2.6.9 (4)

1) With the cassette housing removed, place the reel in the mini-cassette position. (See Fig. 2.6.6 (2))
2) Manually rotate the emergency gear of mode motor counterclockwise (See section 2.2.2, "Mode transition".) to perform loading untill the loading end position.
3) Ensure that the right edge of the tension arm is placed within the range of notch A on the sub-deck.
4) If the right edge is not within the above range, adjust by turning the adjust pin.

Clockwise rotation : to upper limit
Counterclockwise rotation : to lower limit

No.	Item	Ref. Illustration	Procedure
10	**⑯ CONN gear assembly/ ⑰ SUP reel disk assembly/ ⑱ TU reel disk assembly**  **Fig. 2.6.10**	**<Disassembly>** **CONN. gear assembly** 1) Lift the two CONN gears upward to remove. **SUP and TU reel disk assemblies:** 1) Remove the two slit washers (W5) and lift the SUP and TU reel disk assemblies separately to remove each assembly. 2) Lift the two washers (W6) to remove. **<Assembly>** 1) Reverse the disassembly procedure.
11	**M.C.B pin**  **Fig. 2.6.11**	**<Disassembly>** 1) Remove the screw (S4) and remove the M.C.B pin. **<Assembly>** 1) Reverse the disassembly procedure.

No.	Item	Ref. Illustration	Procedure
12	**Switch lever**	 **Fig. 2.6.12**	**<Disassembly>** 1) Unhook the spring (P5). 2) Slide the switch lever in the direction of the arrow and then lift it upward to remove. **<Assembly>** 1) Reverse the disassembly procedure.
13	**㉑ Reel motor**	 **Fig. 2.6.13**	**<Disassembly>** 1) Remove the FFC from the mechanism circuit board CN124. 2) Remove the three screws (S4) and remove the reel motor. **<Assembly>** 1) Reverse the disassembly procedure. 2) Tighten the three screws (S4) in the order of ① - ③. **Note:** **Be sure to have the FFC cable installed on the reel motor side before attaching.**

No.	Item	Ref. Illustration	Procedure
14	**F-lock lever**	 **Fig. 2.6.14**	**<Disassembly>** 1) Slide the F-lock lever in the direction of the arrow to remove. **<Assembly>** 1) Reverse the disassembly procedure.
15	**Dew sensor/ E.G. roller arm assembly**	 **Fig. 2.6.15**	**<Disassembly>** **Dew sensor:** 1) Remove the screw (S7) and remove the DEW sensor. **E.G. roller arm assembly:** 1) Remove the screw (S4) and remove the E.G. roller arm assembly. **<Assembly>** 1) Reverse the disassembly procedure. **Note:** **The E.G. roller arm assembly has undergone perpendicularity management after being assembled, so when replacement is required, it will be necessary to replace the entire mechanism assembly.**

No.	Item	Ref. Illustration	Procedure

16 **Sub-deck/ ㉖ Pinch plate/ ㉗ Capstan motor**

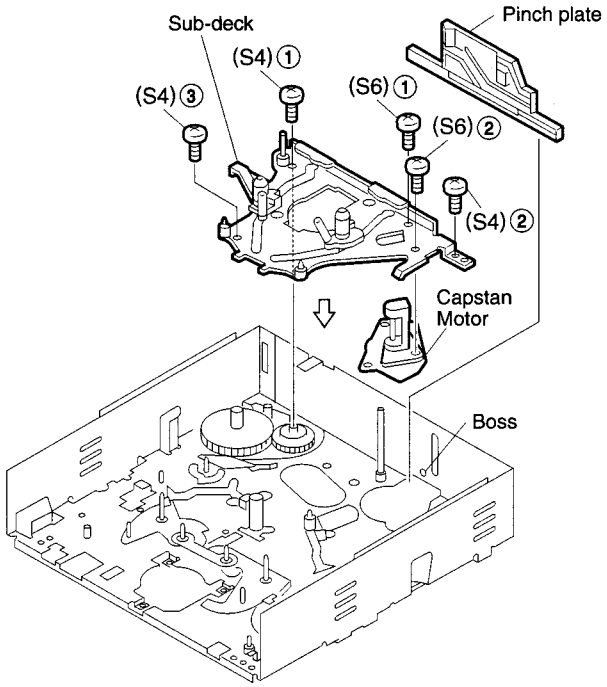


Fig. 2.6.16 (1)

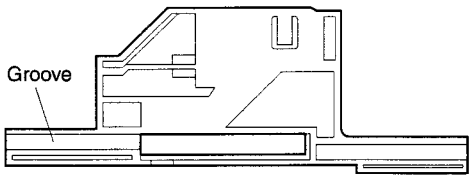


Fig. 2.6.16 (2)

<Disassembly>

Sub-deck/pin plate:

1) Remove the three screws (S4) and slide the sub-deck in the direction of arrow then remove it. The pinch plate also detaches at this time.

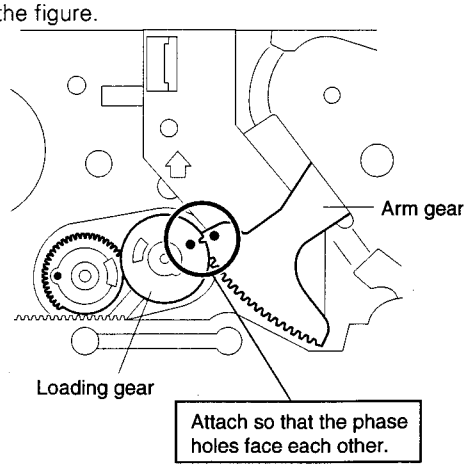
Capstan motor:

1) Remove the two screws (S6) and remove the capstan motor.

<Assembly>

Do this procedure in the unloading end position.

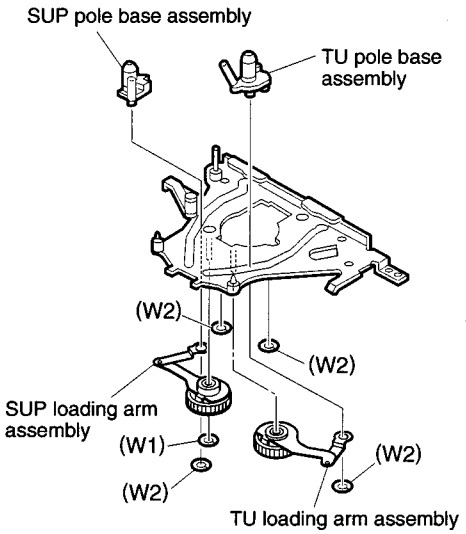
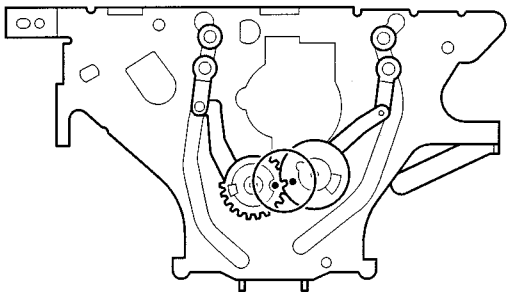
1) Fit the groove on the rear of the pinch plate into the boss on the main deck.
2) Reverse the disassembly procedure.
3) Attach the loading gear and arm gear so that the phase relationship between them is as shown in the figure.



— Unloading End Position —

Notes:

- **Tighten the screws (S4) of the sub deck in the order of ① - ③.**
- **The sub deck assembly has undergone perpendicularity management after being assembled, so when replacement is required, it will be necessary to replace the entire mechanism assembly.**
- **Capstan motor screws (S6) should be tightened in the order of ① - ② and using a securing torque of 0.20 N·m (2 kgf·cm).**

No.	Item	Ref. Illustration	Procedure
17	㉘ **Supply pole base assembly/** ㉙ **Take-up pole base assembly**	 **Fig. 2.6.17**	**<Disassembly>** **Do this procedure in the loading end position.** **Supply pole base assembly:** 1) Remove the two slit washers (W2) and remove the supply pole base assembly. **Take-up pole base assembly:** 1) Remove the two slit washers (W2) and remove the take-up pole base assembly. **<Assembly>** 1) Reverse the disassembly procedure.
18	**Supply loading arm assembly/ Take-up loading arm assembly**	 **Fig. 2.6.18 Sub Deck Bottom Side**	**<Disassembly>** **Do this procedure in the loading end position.** **Take-up loading arm assembly:** 1) Remove the slit washer (W1) and remove the take-up loading arm assembly. **Supply loading arm assembly:** 1) After removing the take-up loading arm assembly, remove the supply loading arm assembly. **<Assembly>** 1) Reverse the disassembly procedure. 2) Attach so that the gear holes on the assemblies face each other.

No.	Item	Ref. Illustration	Procedure

19 **Supply reel lock/ Take-up reel lock**

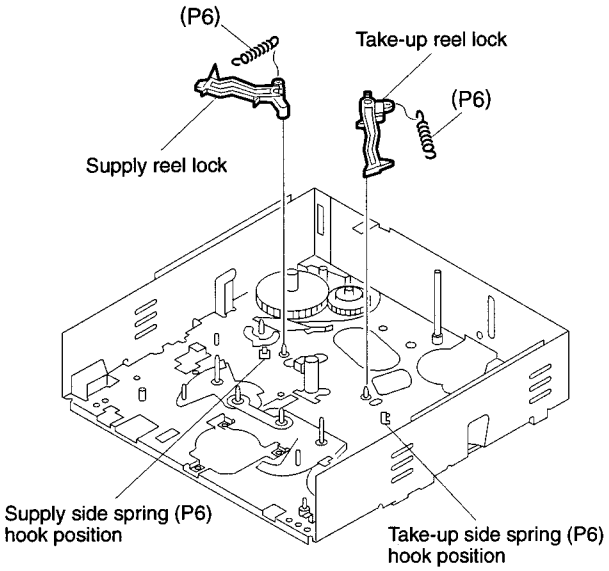


Fig. 2.6.19

<Disassembly>
Supply reel lock:
1) Unhook the spring (P6) and lift the supply reel lock upward to remove.

Take-up reel lock:
1) Unhook the spring (P6) and lift the take-up reel lock upward to remove.

<Assembly>
1) Reverse the disassembly procedure.

20 **㉞ Pinch cam gear/ ㉟ Main cam**

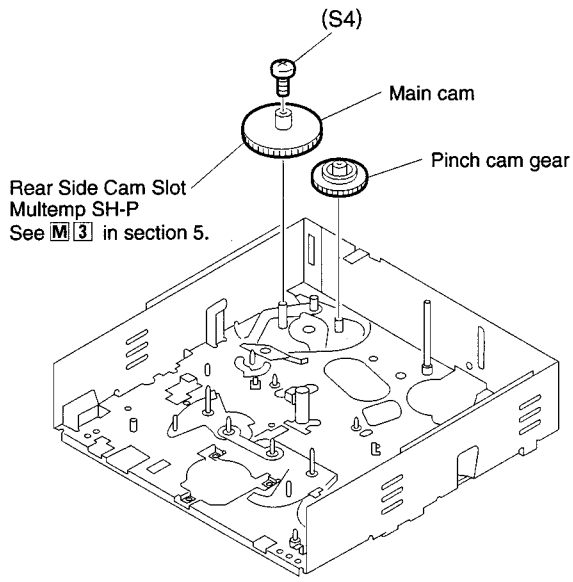


Fig. 2.6.20 (1)

<Disassembly>
Pinch cam gear:
1) Lift the pinch cam gear upward to remove.

Main cam:
1) Remove the screw (S4) and remove the main cam.

<Assembly>
1) Reverse the disassembly procedure.
2) Attach the main cam and pinch cam gear so that their phase relationship is as shown in the figure.

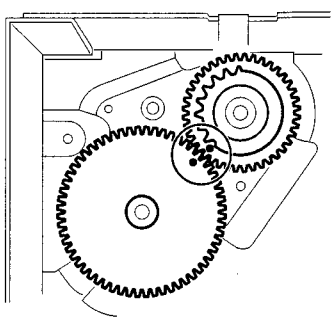


Fig. 2.6.20 (2)

No.	Item	Ref. Illustration	Procedure

21 **㊱ Arm gear/ ㊲ Control arm**

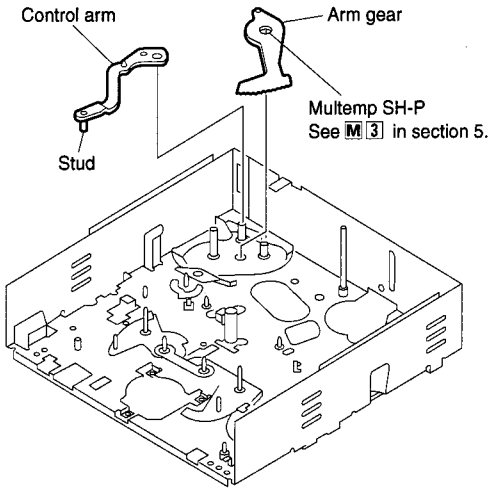


Fig. 2.6.21 (1)

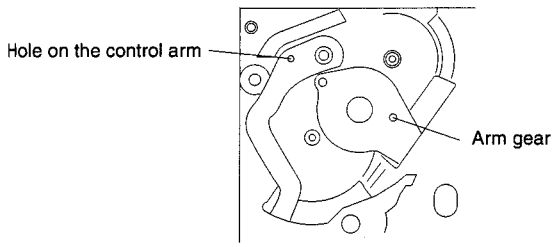


Fig. 2.6.21 (3)

<Disassembly>
Arm gear:
1) Remove the main cam as described in No. 20 and remove the arm gear.

Control arm:
1) Place the main deck upside down.
2) Bend the control plate slightly, disengage the control arm's stud from the groove on the plate and remove the control arm. (Refer to Fig. 2.6.21(2))

<Assembly>
1) Reverse the disassembly procedure.
2) Align the hole on the control arm withy that on the main deck.
3) Align the hole on the arm gear with that on the main deck.

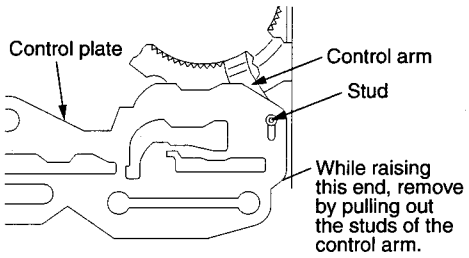


Fig. 2.6.21 (2)

22 **㊳ Control plate/ Mode sensor gear**

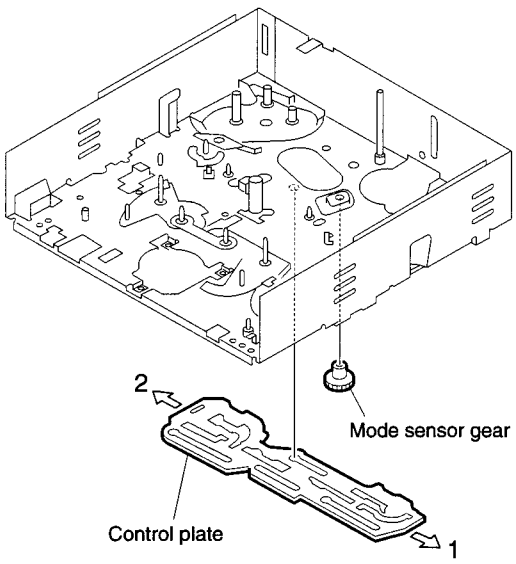


Fig. 2.6.22 (1)

<Disassembly>
Control plate:
1) Place the main deck upside down.
2) Slide the control plate in the direction of the arrow 1 to remove.

Mode sensor gear:
1) Remove the mode sensor gear as if pulling it out.

<Assembly>
1) Attach the control plate.
2) Slide the control plate in the direction of the arrow 2.
3) Attach the mode sensor gear so that the hole on it is aligned with that on the control plate.

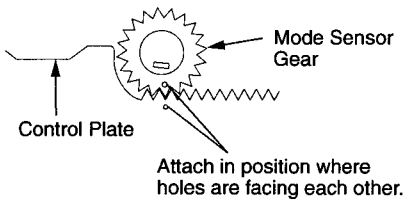


Fig. 2.6.22 (2)

No.	Item	Ref. Illustration	Procedure

23 **Leaf plate**

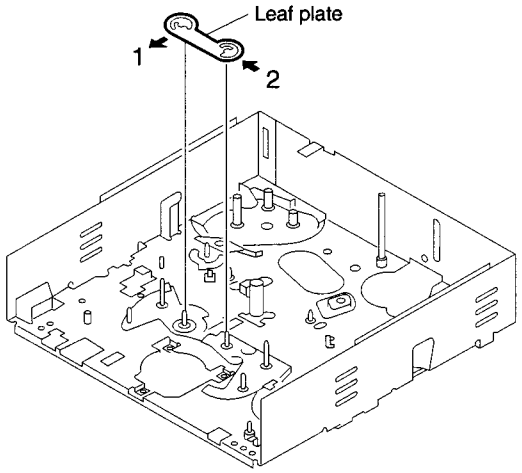


Fig. 2.6.23

<Disassembly>

1) Push the supply side of the leaf plate in the direction of arrow 1 to release the lock.
2) Push the take-up side of the leaf plate in the direction of arrow 2 to release the lock. Now the leaf plate can be removed.

<Assembly>

1) Reverse the disassembly procedure.

Note:

Be careful not to deform the leaf plate during removing or attaching.

24 **㊶ Supply reel plate/ ㊷ Tale-up reel plate**

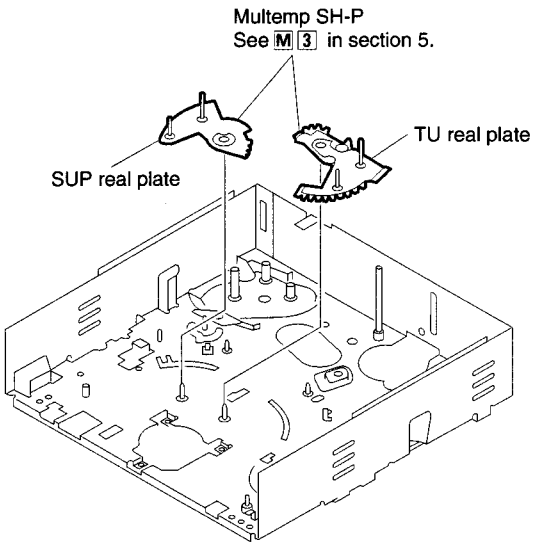


Fig. 2.6.24 (1)

<Disassembly>

Supply reel plate:

1) Slide the reel change plate toward the mini-cassette position. (Stop sliding before it is locked completely.) (See Fig. 2.6.6 (2))
2) Lift the right side of the supply reel plate (gear side) and turn it slightly to remove.

Take-up reel plate:

1) Lift the left side of the take-up reel plate and turn it slightly to remove.

<Assembly>

1) Reverse the disassembly procedure.

Notes:

Take-up reel plate attaching position

Attach the take-up reel plate so that the gear cogs on its inner right side are meshed with those on the left end of the reel plate drive gear.

Supply reel plate attaching position

Attach the supply reel plate so that the gear cogs on its inner right side are meshed with those on the left end of the supply reel plate.

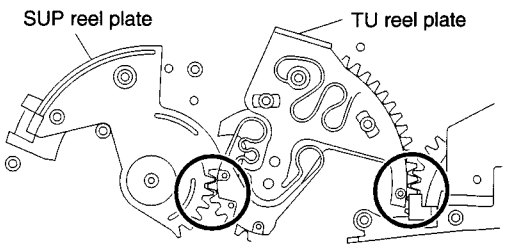


Fig. 2.6.24 (2)

No.	Item	Ref. Illustration	Procedure

25 **㊸ FPC1 assembly**

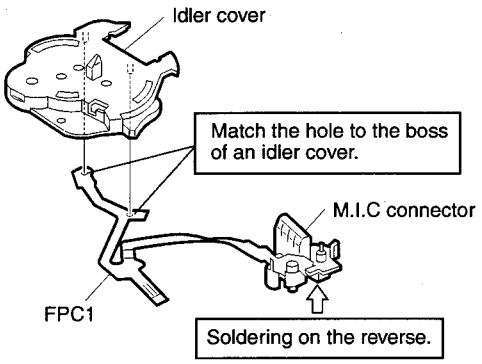


Fig. 2.6.25

<Disassembly>
1) Remove the M.I.C connector and idler arm assembly as described in section 2.6.7.
2) Remove solder from the M.I.C connector (6 positions).
3) Remove the FPC1 assembly by performing the same operation as peeling adhesive tape off for the idler cover section.

<Assembly>
1) Reverse the disassembly procedure.

Note:
Do not reuse the removed FPC1 assembly.

26 **FPC2 assembly/ FPC3 assembly**

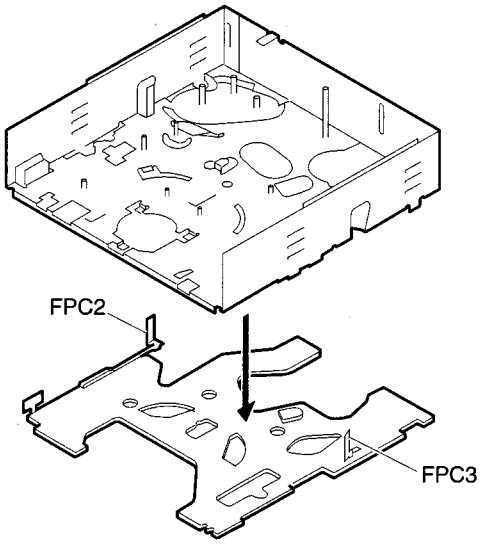


Fig. 2.6.26 (1)

<Disassembly>
FPC2 assembly:
1) Remove solder from CN126 on the mechanism board.
2) Remove the FPC2 assembly as if peeling adhesive tape off.

FPC3 assembly:
1) Remove solder from CN127 on the mechanism board.
2) Remove the FPC3 assembly as if peeling adhesive tape off.

<Assembly>
1) Reverse the disassembly procedure.

Note:
Do not reuse the removed FPC1 and FPC2 assemblies.

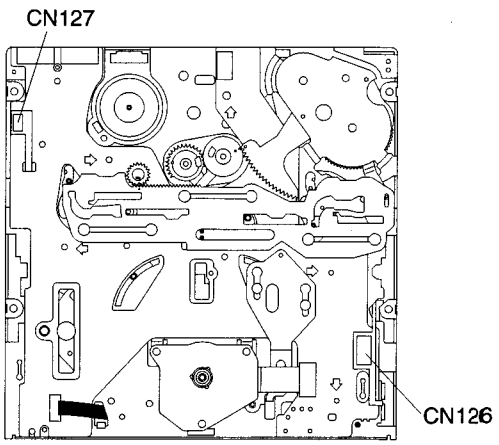


Fig. 2.6.26 (2)

No.	Item	Ref. Illustration	Procedure

27 **Cassette LED/ LED holder/ MECHA board assembly**

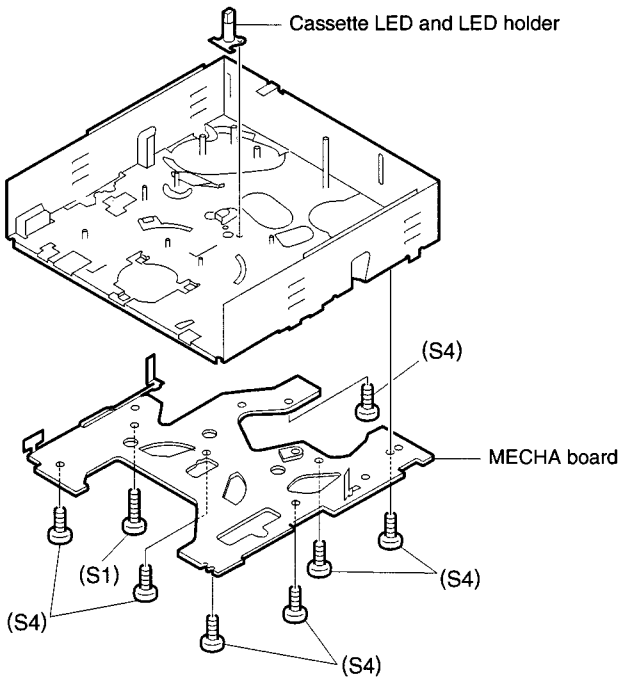


Fig. 2.6.27 (1)

<Disassembly>

Cassette LED:

1) Remove solder from LD1 on the mechanism board and remove the cassette LED.

LED holder:

1) While pushing the three claws locking the LED holder, remove it.

MECHA board assembly:

1) Remove the seven screws (S4) and a screw (S1), then remove the MECHA board assembly.

<Assembly>

1) Reverse the disassembly procedure.
2) Tighten the eight screws of the mechanism board assembly in the order shown in the illustration.

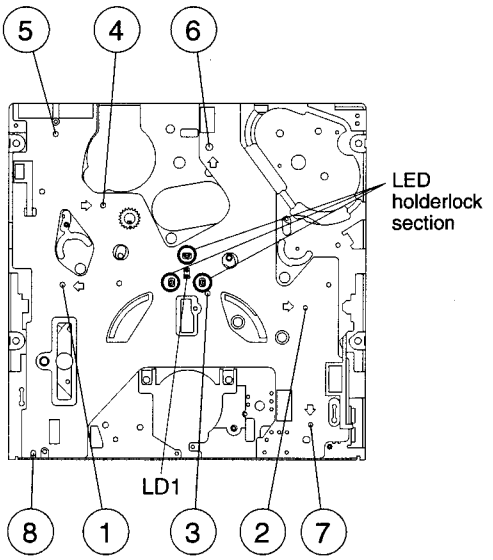


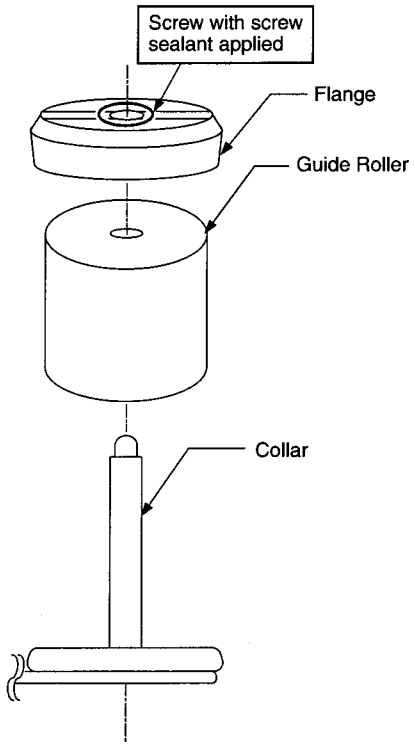
Fig. 2.6.27 (2) — Mechanism unit bottom side —

Note:
Makce sure the three claws locking of the LCD holder does not loosen.

No.	Item	Ref. Illustration	Procedure

2.7 GUIDE ROLLER REPLACEMENT METHOD

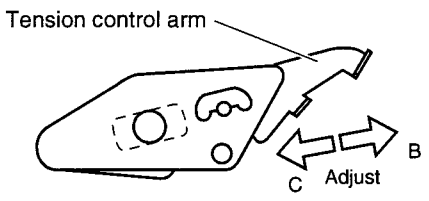
Since the SUP/TU tension arm assembly, sub deck assembly (ENT, G, roller section), and E.G.R. arm, have all undergone perpendicularity management after being assembled respectively, assembly replacement of these is not possible.
For maintenance, only the guide roller can be replaced.

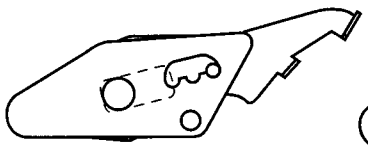
1	**Ⓓ Guide roller replacement procedure for SUP/TU tension arm assembly and ENT.G. roller/E.G. roller arm assembly**  **Fig. 2.7.1**	**<Removing>** 1) Remove the flange on the upper part of the guide roller as you would remove a screw. 2) Pull the guide roller upward and remove it. 3) Pull the collar upward and remove it. **<Installing>** 1) Proceed in the reverse order as when removing. 2) When fixing the flange in place, first tighten by hand until it stops, then tighten further using a securing torque of 0.04 N/m (0.4 kgf/cm). 3) After fixing in place, apply screw sealant to the screw on the upper end of the flange. **Note:** **When applying additional tightening force, avoid excessive force that may cause distortion of the arm section.**

No.	Item	Measuring instruments & Input signals	Mode	Measuring point (◎) Adjustment parts (⇧) Adjustment level (☆)	Adjustment procedure

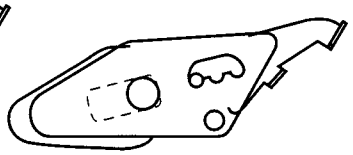
2.8 TORQUE ADJUSTMENT

1	Supply back torque adjustment	Cassette torque meter YTU94150A	Play	◎ Supply side reading of cassette torque meter ☆ 6.5 $^{+1.0}_{-0.5}$ x 10^{-4} N·m	1) Insert the torque cassette meter YTU94150A and press the [PLAY] button. 2) Ensure that the SUP back torque value is within the specified range. (If the reading varies, read the center value.) 3) If the reading is out of specification, eject the cassette and adjust by moving the tension control arm. · To increase the torque → Move in direction B · To decrease the torque → Move in direction C. 4) Perform steps 1) and 2) above again and ensure that the SUP back torque value is within the specified range. If it is out of specification, check the <Supply tension band position adjustment> in 2.6.8 above.
2	Take-up wind torque adjustment	Cassette torque meter YTU94150A	PLAY, Adjustment menu No. 119	◎ Take-up side reading of cassette torque meter ☆ 11.5 $^{+1.0}_{-0.5}$ x 10^{-4} N·m	1) Select adjustment menu [119. FWD TORQUE]. **(For the adjustment menu, see 3.1.4, "Adjustment menu".)** 2) Insert the torque cassette meter YTU94150A and press the [PLAY] button. 3) Adjust the TU wind torque so that it is within the specified range. · Press SET to enter the adjustment mode. · To increase the torque → Press ▲. · To decrease the torque → Press ▼. 4) After adjustment, press SET (PAUSE) to store the adjustment data.



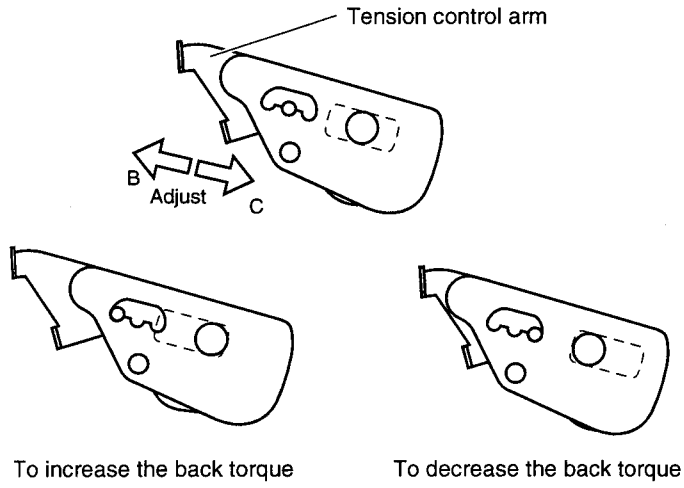


To increase the torque



To decrease the torque

No.	Item	Measuring instruments & Input signals	Mode	Measuring point (◎) Adjustment parts (⊕) Adjustment level (☆)	Adjustment procedure
3	Take-up back torque adjustment	Cassette torque meter KLJ0312	REV x 1	◎ Take-up side reading of cassette torque meter ☆ $6.5^{+1.0}_{-0.5}$ x 10^{-4} N·m	1) Insert the torque cassette meter KLJ0312 and enter REV x1 mode. 2) Ensure that the TU back torque value is within the specified range. (If the reading varies, read the center value.) 3) If the reading is out of specification, eject the cassette and adjust by moving the tension control arm. · To increase the torque → Move in direction B · To decrease the torque → Move in direction C. 4) Perform steps 1) and 2) above again and ensure that the TU back torque value is within the specified range. If it is out of specification, check the <Take-up tension band position adjustment> in 2.6.9 above.
4	SUP wind torque CHECK	Cassette torque meter KLJ0312	REV x 1	◎ Take-up side reading of cassette torque meter ☆ $11.5^{+1.5}_{-1.0}$ x 10^{-4} N·m	1) Insert the torque cassette meter KLJ0312 and enter REV x1 mode. 2) Ensure that the SUP wind torque is within the specified range. If it is out of specification, check the assembly condition of the reel drive parts.



2.9 INTERCHANGEABILITY ADJUSTMENT

2.9.1 Interchangeabilty adjustment flow chart

Fig. 2-8-1 shows the flow chart of compatibility adjustment.

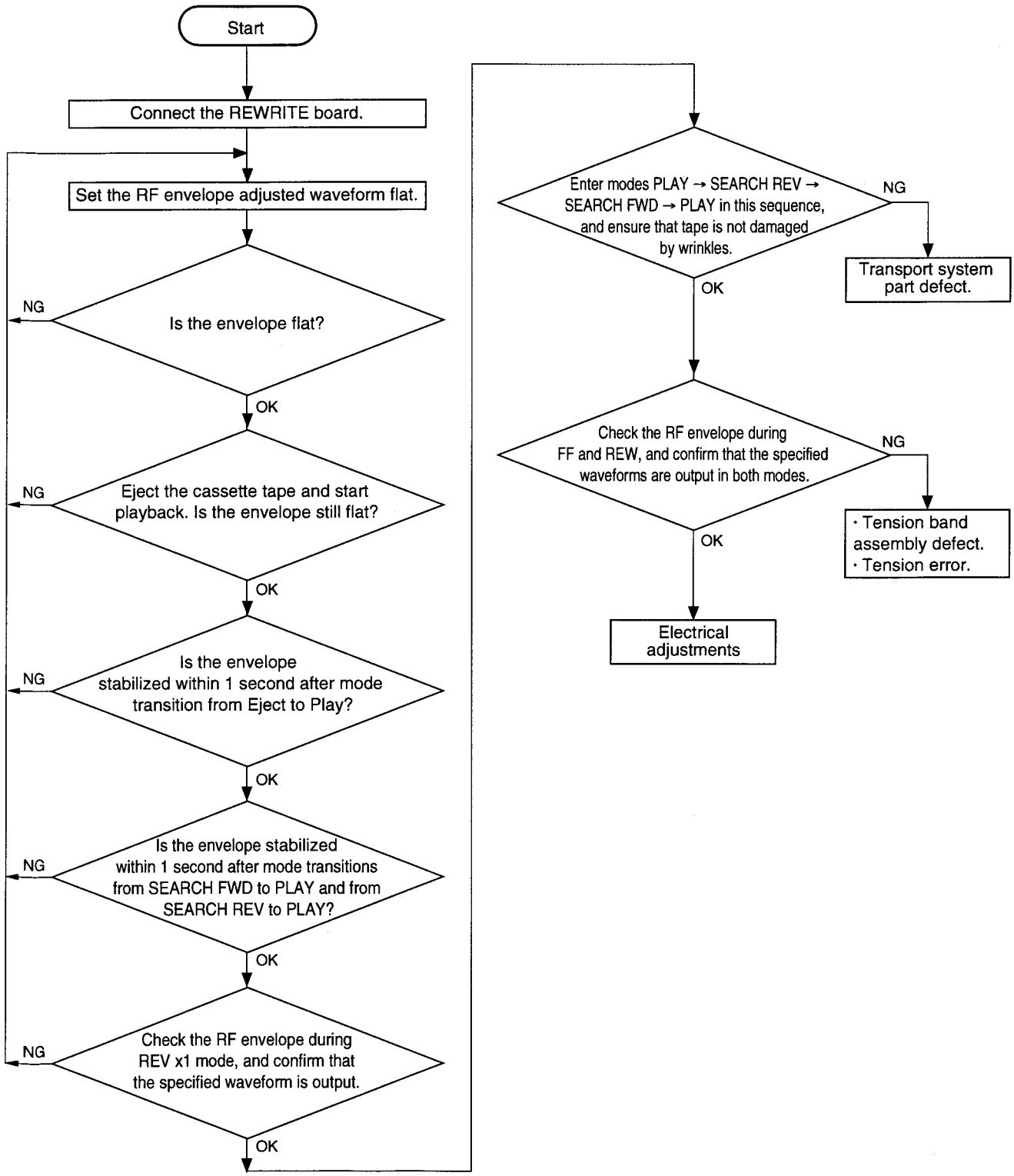


Fig. 2-9-1

2.9.2 Tape Transport Restriction

The unit uses only the SUP guide roller and TU guide roller to restrict the tape transport. The tape is free (no restriction) from other parts.

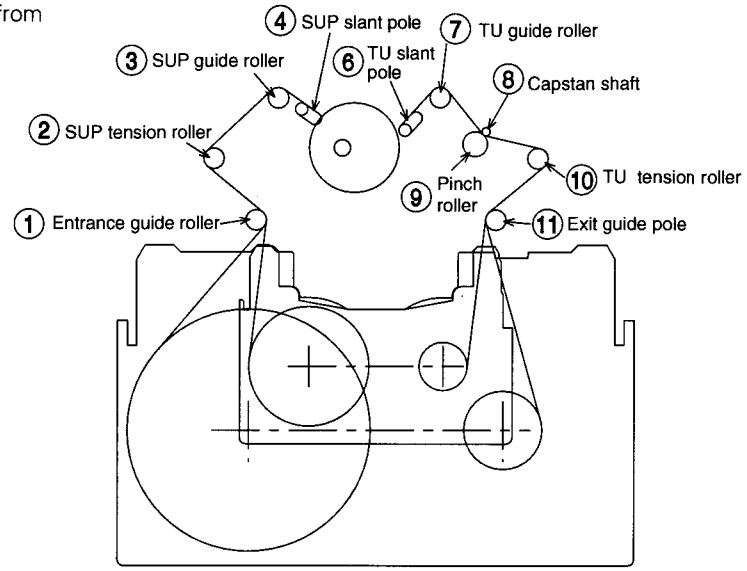


Fig. 2.9.2

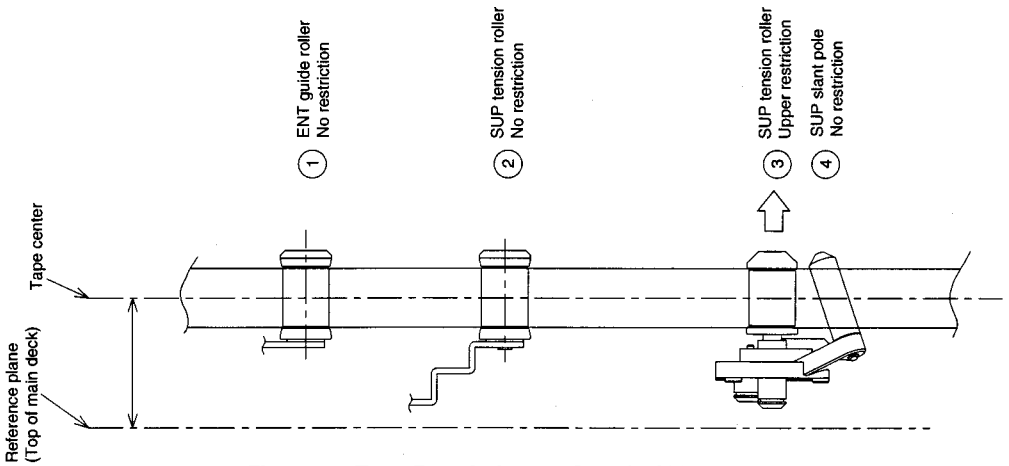


Fig. 2.9.3 Tape Restriction on Supply Side

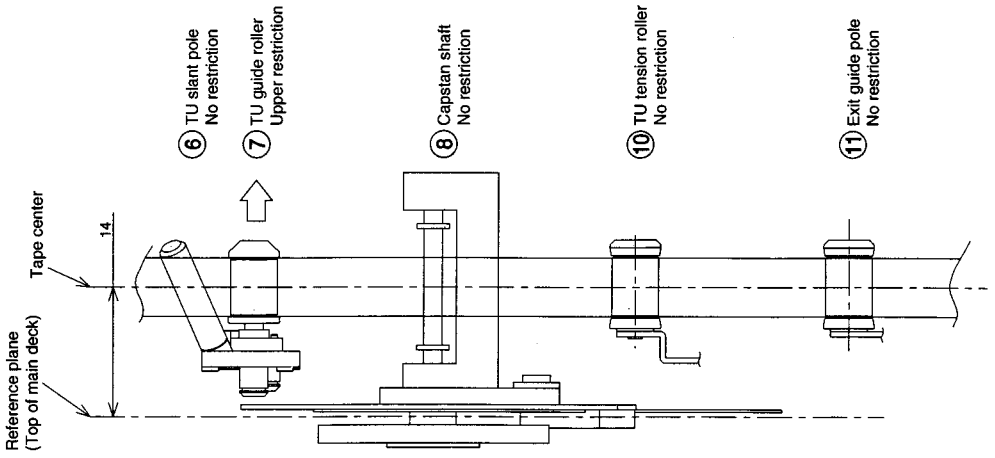


Fig. 2.9.4 Tape Restriction on Take-up Side

No.	Item	Measuring instruments & Input signals	Mode	Measuring point (◎) Adjustment parts (ⓣ) Adjustment level (☆)	Adjustment procedure

2.9.3 Interchangeability adjustment

1	Preparation				(1) Connect a REWRITE board to the CN004 on the SYS/AUDIO board. Refer to section 3 page 3-5 (Fig.3.2) for more details. **Note:** **Be sure to clean the tape transport parts and play a cleaning tape before proceeding to the compatibility adjustment.**
2	RF envelope adjustment	• Oscilloscope, alignment tape MC-1(NTSC) MC-2(PAL) Color bar portion	Play	◎ TP9 ENV OUT [REWRITE board] ◎ TP5 HID [REWRITE board] ⓣ Supply guide roller ⓣ Take-up guide roller ☆ Make the waveforms flat. The drop level should be less than 3 dB with both SUP and TU levels. ☆ Flatness variation should be less than 2 dB.	(1) Play alignment tape color bar portion. (2) Observe the measuring points and adjust the supply guide roller and take-up guide roller so that the RF envelope is flat. (3) Set the mode to EJECT, then set to the PLAY mode and ensure that the RF envelope is flat.

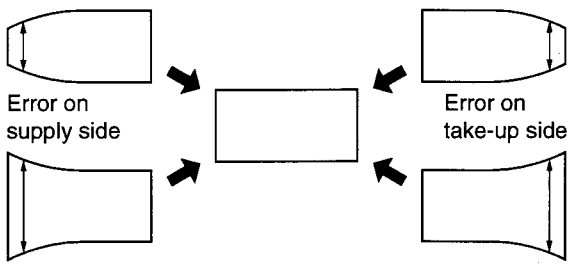


Fig. 2.9.5

No.	Item	Measuring instruments & Input signals	Mode	Measuring point (◎) Adjustment parts (⊕) Adjustment level (☆)	Adjustment procedure
3	Waveform rise check	• Oscilloscope, alignment tape MC-1(NTSC) MC-2(PAL) Color bar portion	Eject →Play Search FWD →Play Search REV → Play	◎ ENV OUT [REWRITE board] ◎ HID [REWRITE board] ☆The envelope waveform should be restored within 1 sec.	(1) Switch the mode from Eject → Play and ensure that the envelope is stabilized in less than 1 sec. (2) Switch the mode from Search FWD → Play and from Search REV → Play, and ensure that the envelope is stabilized in less than 1 sec. in both cases. (3) If the envelope does not stabilized in the specified period, fine-adjust the supply/take-up guide rollers as far as the envelope waveform specification is met, then restart checking from the above procedure (1) again.
4	Damage check	• Self-recorded/ played tape 60 ME 270ME	Play ↓ Search REV ↓ Search FWD ↓ Play	◎ ENV OUT [REWRITE board] ◎ HID [REWRITE board] ☆The tape should not be damaged by wrinkle.	(1) Transport the self-recorded/played Mini cassette tape from the beginning by changing modes in order of Play → Search REV → Search FWD → Play, and ensure that wrinkles due to strong restriction by the guide rollers and guide pole are not produced on tape. (2) Perform the same check at the section near the end of tape. (3) Make sure that no tape damage occurs when a tape is being loaded, unloaded or ejected. (4) Perform the same produre (1) — (3) with standard cassette.
5	Envelope check during FF/REW	• Oscilloscope, alignment tape MC-1(NTSC) MC-2(PAL) Color bar portion	FF REW	◎ ENV OUT [REWRITE board] ◎ HID [REWRITE board] ☆A < 55μsec. ☆B ≧ T/3	**This checking should be done after completing the switching point adjustment.** (1) Insert the alignment tape and enter Stop mode. (2) Enter FF mode. (3) Ensure that the envelope output is present at 55 μs before the HID switching timing. (4) Check the take-up side of the envelope to see that the MAX output duration is more than 1/3 the HID duration. (5) Enter REW mode and check the same items as (3) and (4) above. (6) If the envelope is out of specification, check the tension band and main brake assembly and replace as needed. Confirm the playback switching point.

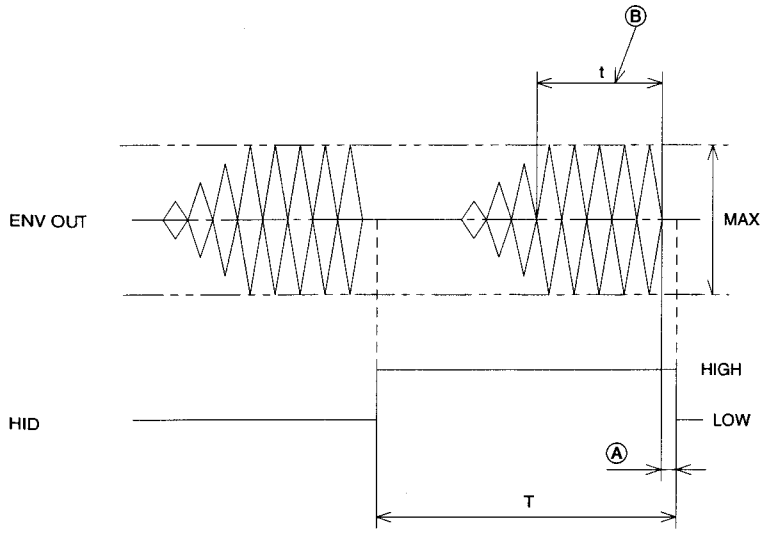


Fig. 2.9.6

SECTION 3
ELECTRICAL ADJUSTMENTS

3.1 PRECAUTIONS

Before proceeding to any electrical adjustment, it is required to confirm without fail that the objective item (function or part) is out of order. Moreover, for the item that needs exact mechanical adjustment prior to electrical adjustment, make sure that it is mechanically normal first and then proceed to electrical adjustment.
Start electrical adjustment at least 10 minutes after the VCR has been turned on.
Regarding an oscilloscope to be used for measurement, use the 10:1 probe.

3.1.1 Required tools and measuring instruments for adjustments

(1) Measuring instruments

- Oscilloscope (Dual-trace type for 100 MHz or higher frequency)
- Composite and Y/C video signal generator (LEADER 425A for NTSC or 425P for PAL, TEKTRONIX TSG-130A for NTSC or TSG-131A for PAL, or equivalent)
- Component signal generator (LEADER 425A for NTSC or 425P for PAL, TEKTRONIX TSG-130A for NTSC or TSG-131A for PAL, or equivalent)
- Vectorscope (TEKTRONIX 520A or equivalent)
- Wave form monitor (TEKTRONIX 1585R or equivalent)
- Frequency counter (Sensitivity for 10 MHz or higher and 100 mV or lower.)
- Monitor TV
- Audio tester

(2) Tools

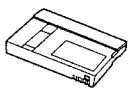
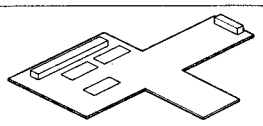
1	Alignment tapes
MC-1(NTSC) MC-2(PAL)	
2	REWRITE Board
CK453800B	

Table 3-1-1

3.1.2 Alignment tapes

MC-1/MC-2

No.	Video signal	Audio signal	Time (min.)	Application
1	Animated image	Sound of animated image	10	For check of block noise.
2	Color bars	1 kHz	10	· For adjustment of interchangeability. · For check and adjustment of playback video/audio circuit.

Table 3-1-2

3.1.3 Standard setup for adjustment

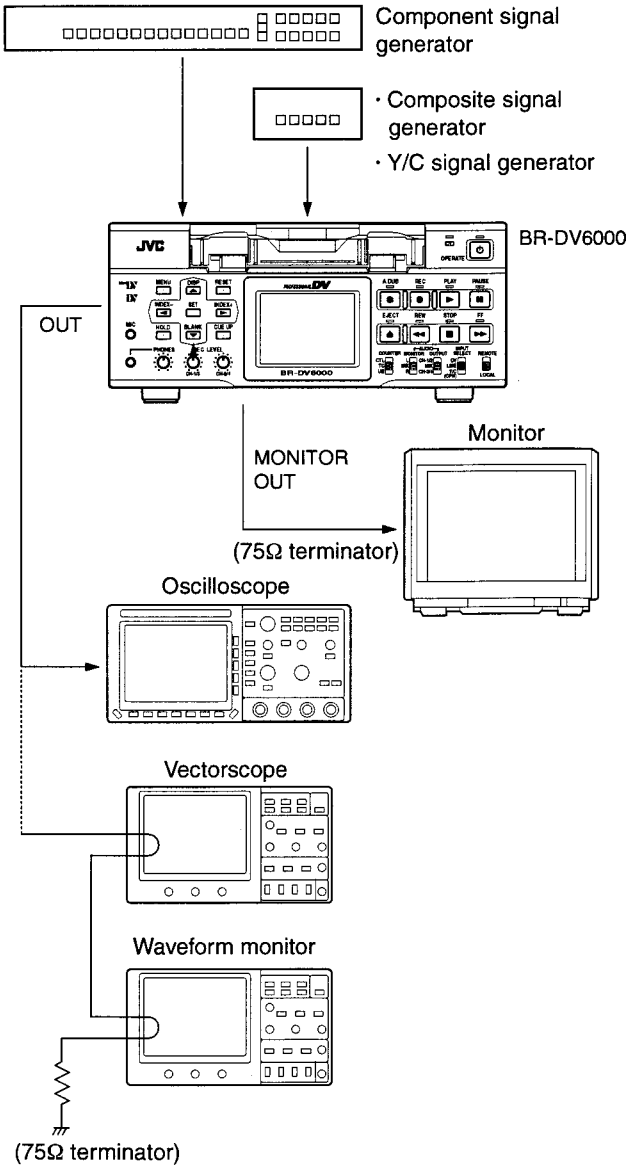


Fig. 3-1-1

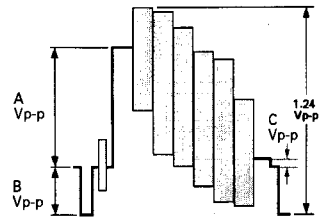
3.1.4 Signals required for adjusting video system

The BR-DV6000 should be adjusted using signals with the color level at 100%, setup level at 7.5% (NTSC only) and Betacam level (component signals). Be sure to check the output level from the signal generator before adjustment. If a signal is with a color level of 75% or without a setup level (NTSC only), the adjusted value will be incorrect.

① Composite signal

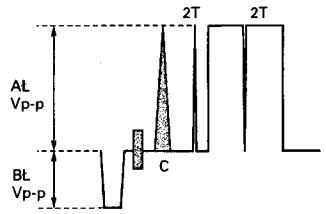
(1) Composite color-bar signal
(U: 100% Color bars with 7.5% setup)
(E: 100% Color level, 0% setup)

U : A = 0.714, B = 0.286, C = 0.0536
E : A = 0.7, B = 0.3, C = 0

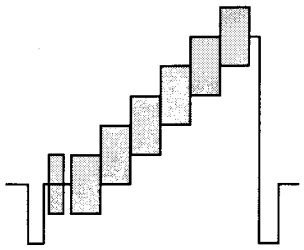


(2) Composite pluse & bar signal

U : A = 0.714, B = 0.286, C = 12.5T
E : A = 0.7, B = 0.3, C = 20T



(3) Composite MOD 5 STEP Signal



(4) Composite multiburst signal (B/W)

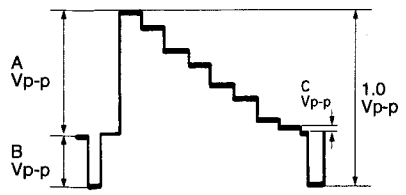
(Can be replaced by Y signal of the component multiburst signal.)

* Should include 500 kHz and 4 MHz bursts.

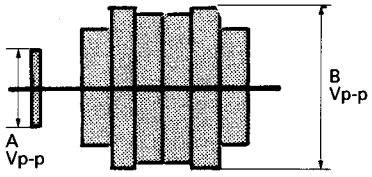
② Y/C signal

(1) Color bars signal (100% color level, 7.5% setup level)

Y/C (Y) U : A = 0.74, B = 0.286, C = 0.0536
E : A = 0.7, B = 0.3, C=0

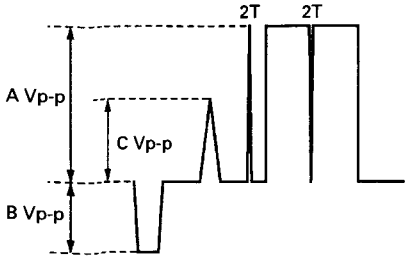


Y/C (C) U : A = 0.286, B = 0.84
E : A = 0.3, B = 0.885

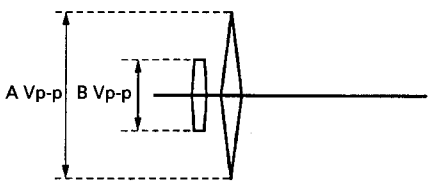


(2) Y/C Pluse & bar signal

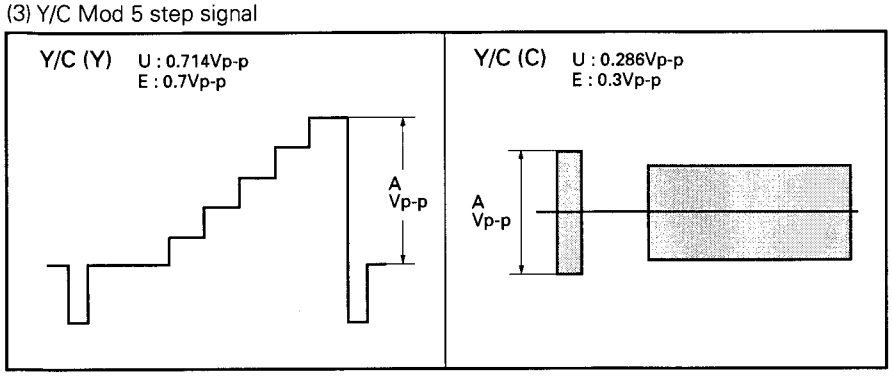
Y/C (Y) U: A = 0.714 B = 0.286 C = 0.357
E: A = 0.7 B = 0.3 C =



Y/C (C) U: A = 0.714 B = 0.286
E: A = 0.7 B = 0.3



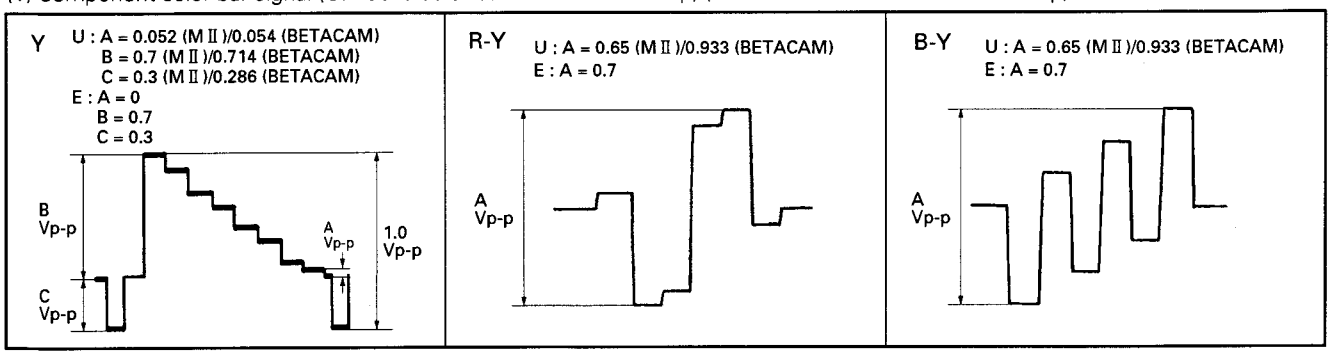
(3) Y/C Mod 5 step signal



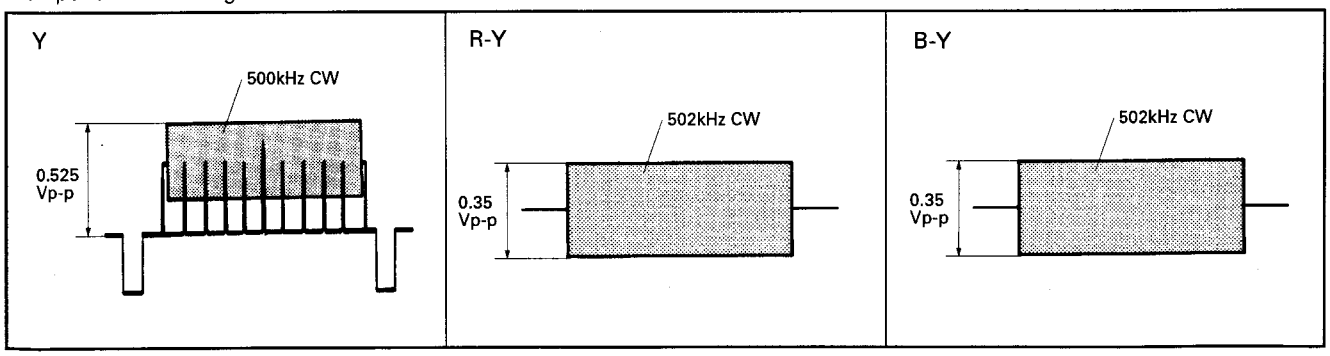
③ Component signals

The signals required for the adjustment are 100% chroma signal and the Betacam level. (The levels of MII are shown below as reference)

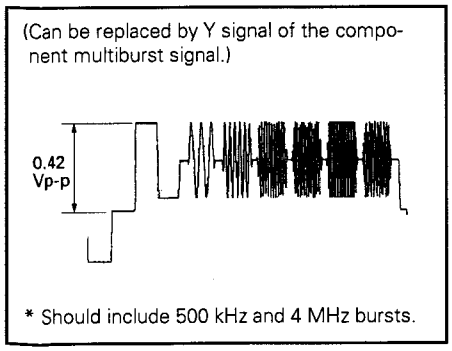
(1) Component color-bar signal (U: 100% color bars with 7.5% setup) (E: 100% Color bars with 0% setup)



Component bowtie signal



Composite multiburst signal



3.1.5 Adjustment menu

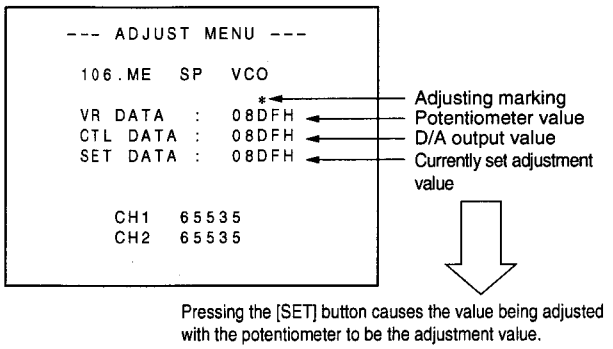
(1) Operation method

Use the ADJUST MENU for adjustments. The operating method is as follows.

① Make sure of no cassette in the VTR. While holding the [REW] and [FF] buttons, press the [OPERATE] button to turn the unit on.

② When the unit is turned on, press and hold the [MENU] button for about 2 seconds until the ADJUST MENU is displayed.

③ Press the [SET] button so that the "*" marking blinks and, while observing the specified TP, the measuring instrument and others, press the ▲ button or ▼ button to adjust the value to the specified value.
(Pressing the [A.DUB] button simultaneously with the ▲ or ▼ button varies the adjustment value by ±10 steps.)



④ After completing the adjustment, press the [SET] button again to turn the "*" marking off and store the adjustment value. (The adjustment value is not stored unless the [SET] button is pressed.)

④ Press the ▶ or ◀ button to select the next adjustment item.

Notes:

- To return to normal operating status, turn the unit off then on again. If this is not performed, it is not possible to display the normal operation menu.

(2) Adjustment items and initial data

The initial values are merely the typical values, which are written automatically after the EEP-ROM replacement, etc. As the adjustments will not be correct if these values are left, be sure to perform actual adjustments before use.

The hatched rows in the following table indicate that adjustments are not necessary so, do not change the value of the initial settings.

No.	Adjustment item (OSD charactters)	Initial value (CTL DATA)	Adjustment range
100	SW POINT	Auto	00000000 – FFFFFFFF
105	ME REC CURRENT	121	0 – 255
106	ME SP VCO	0890(Hex)	0000h – FFFFh
110	FS PLL 48kHz	25	0 – 255
111	FS PLL 44.1kHz	83	0 – 255
112	FS PLL 32kHz	25	0 – 255
113	27MHz VCO	143	0 – 255
114	ATF GAIN	110	0 – 255
115	AGC GAIN	132	0 – 255
116	DUMP CTL	68	0 – 255
118	BGNEND SENS	18	0 – 255
119	FWD TORQUE	192	0 – 255
120	REV TORQUE	192	0 – 255
201	LINE YLEV	—	—
202	YC YLEV	—	—
203	YC CLEV	—	—
204	CPN YLEV	—	—
205	CPN B-Y LEV	—	—
206	CPN R-Y LEV	—	—
207	INTERNAL 27M ADJ	98	0 – 255
208	NO IN 27M ADJ	100	0 – 255
209	EXT H PHASE AD(PB_NTSC)	124	0 – 255
210	EXT H PHASE AD(PB_PAL)	116	0 – 255
211	IN H PHASE ADJ	155	0 – 255
212	SETUP ADJ(LINE)	84	0 – 255
213	SETUP ADJ(YC)	108	0 – 255
214	SETUP ADJ(CPN)	101	0 – 255
215	Y ADJ(LINE)	188	0 – 255
216	Y ADJ(YC)	212	0 – 255
217	Y ADJ(CPN)	209	0 – 255
218	REC YFREQ ADJ(LINE)	91	0 – 255
219	REC YFREQ ADJ(YC)	99	0 – 255
220	REC YFREQ ADJ(CPN)	100	0 – 255
221	ACC CLEV	76	0 – 255
222	HUE ADJ(LINE)	100	0 – 255
223	HUE ADJ(YC)	107	0 – 255
224	R-Y DL ADJ(LINE)	68	0 – 256
225	R-Y DL ADJ(YC)	64	0 – 256
226	R-Y DL ADJ(CPN)	49	0 – 256
227	B-Y DL ADJ(LINE)	70	0 – 256
228	B-Y DL ADJ(YC)	71	0 – 256
229	B-Y DL ADJ(CPN)	45	0 – 256
230	R-Y ADJ(LINE)	190	0 – 256
231	R-Y ADJ(YC)	118	0 – 256
232	R-Y ADJ(CPN)	206	0 – 256
233	B-Y ADJ(LINE)	189	0 – 256
234	B-Y ADJ(YC)	—	0 – 256
235	B-Y ADJ(CPN)	205	0 – 256
241	SUB-BRIGHT R	52	0 – 127
242	SUB-BRIGHT B	52	0 – 127
243	PEAKING	15	0 – 127
244	CONTRAST R	84	0 – 127
245	CONTRAST B	84	0 – 127
246	GAMMA-1	0	0 – 127
247	GAMMA-2	0	0 – 127
248	PSIG BRIGHT	80	0 – 127
249	COMMON DC	60	0 – 127
250	HUE	64	0 – 127
251	VCO FINE(PB_NTSC)	144	0 – 256
252	VCO FINE(PB_PAL)	166	0 – 256
253	BLACK LIMITER	54	0 – 63
254	VCO COARSE(PB_NTSC)	4	0 – 7
255	VCO COARSE(PB_PAL)	4	0 – 7
256	H-POSITION(PB_NTSC)	15	2 – 31
257	H-POSITION(PB_PAL)	12	2 – 31
258	AUDIO LEVEL ADJ	—	—

3.2 DVC UNIT ADJUSTMENTS

Preparation : Connect the Rewrite board (CK453800B) to CN004 on the SYS/AUDIO board. Connect it in the orientation shown in Fig. 3.2, so that the test point surface (component mounting surface) faces toward the rear.

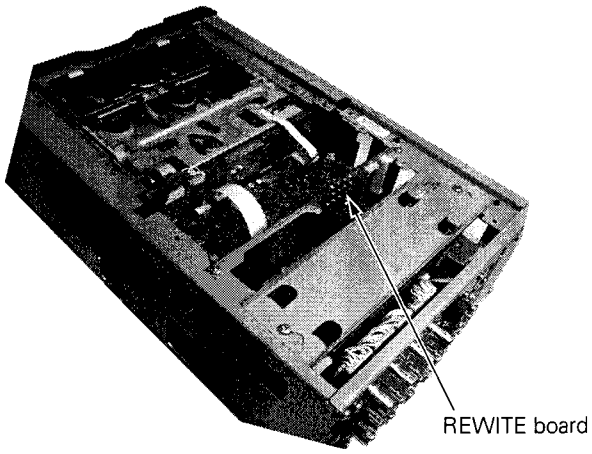


Fig. 3.2 Rewrite board connection method

No.	Item	Measuring instruments & Input signals	Mode	Measuring point (◎) Adjustment parts (ⓣ) Adjustment level (☆)	Adjustment procedure
1	PB switching point adjustment	Alignment tape, NTSC: MC-1 or PAL: MC-2 color bar recorded section	• PLAY • ADJUST MENU, 100. PB SW POINT	◎ TP6 (SPA) ◎ TP9 (ENV OUT) TRIG: TP5 (HID) GND: TP1 (GND) [Rewrite board] ⓣ Auto adjustment ☆ a and b = 126 μs sec ± 10 μs sec	(1) Select ADJUST MENU No. 100, "PB SW POINT". (2) Play the alignment tape. Ensure that the compatibility adjustment has been performed and the FM waveform at TP9 (ENV OUT) is flat and stable. (3) Press the [SET] button to cause the * marking to blink. The PB switching point will be adjusted automatically.

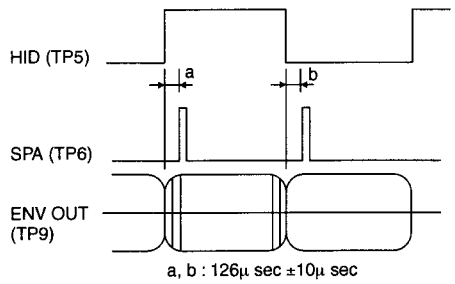


Fig. 3.2.1(1)

No.	Item	Measuring instruments & Input signals	Mode	Measuring point (◎) Adjustment parts (①) Adjustment level (☆)	Adjustment procedure
					(4) Measure TP6 (SPA) by triggering TP5 (HID) and confirm that the values a and b are within the specified ranges. (5) Press the [PLAY] button a few times to display the adjustment data in the "DATA:" field. (The DATA value should not be 00000000 or FFFFFFFF.) (6) Press the [SET] button to store the adjustment data. **NOTE:** **Make sure that the data value is displayed before pressing the [SET] button. If this adjustment is completed before the data value is displayed the adjustment value will not be put into the memory.**
2	ME recording current adjustment		• REC • ADJUST MENU, 105. ME REC CURRENT	◎ Monitor display ① [PLAY] and [STOP] buttons ☆ SET DATA = 115	(1) Select ADJUST MENU No. 105, "ME REC CURRENT" and enter REC mode. (2) Check the set data so that the value is "115" (Recording current is approx. 360 mVp-p) If not, adjust the value to "115" (3) Press the [SET] button to store the adjustment data.

```
--- ADJUST MENU ---

100.PB  SW  POINT
                *
VR DATA  :  ----
CTL DATA :  120
SET DATA :  120


DATA : 00000000
```

Press the [PLAY] button a few times to display data.

After displaying the data, press the [SET] button to complete the adjustment.

Fig. 3.2.1(2)

```
--- ADJUST MENU ---

105.ME  REC CURRENT

VR DATA  :  115
CTL DATA :  115
SET DATA :  115


    CH1 65535
    CH2 65535
```

Fig. 3.2.2

No.	Item	Measuring instruments & Input signals	Mode	Measuring point (◎) Adjustment parts (ⓣ) Adjustment level (☆)	Adjustment procedure
4	FS PLL 48 kHz adjustment	Frequency counter No input	EE ADJUST MENU, 110. FS PLL 48 kHz	◎ TP4 (FS PLL) GND: TP1 (GND) [Rewrite board] ⓣ [▲] and [▼] buttons ☆ 12.288 MHz ± 0.1 MHz	(1) Select ADJUST MENU No. 110, "FS PLL 48 kHz". (2) Adjust the frequency to the specified level. (3) Press the [SET] button to store the adjustment data.
5	FS PLL 44.1 kHz adjustment	Frequency counter No input	EE ADJUST MENU, 111. FS PLL 44.1 kHz	◎ TP4 (FS PLL) GND: TP1 (GND) [Rewrite board] ⓣ [▲] and [▼] buttons ☆ 11.2896 MHz ± 0.1 MHz	(1) Select ADJUST MENU No. 111, "FS PLL 44.1 kHz". (2) Adjust the frequency to the specified level. (3) Press the [SET] button to store the adjustment data.
6	FS PLL 32 kHz adjustment	No input.	EE ADJUST MENU,112. FS PLL 32 kHz	◎ Monitor display ⓣ [▲] and [▼] buttons ☆ Value adjusted in No. 110, "FS PLL 48 kHz" in item 4 above.	(1) Select ADJUST MENU No. 112, "FS PLL 32 kHz". (2) Adjust to the same value as the FS PLL 48 kHz adjustment value. (Setting range: 0 to 255) (3) Press the [SET] button to store the adjustment data.
7	27 MHz VCO center frequency adjustment	Frequency counter No input	EE ADJUST MENU,113. 27 MHz VCO	◎ TP7 (MAIN VCO) GND: TP1 (GND) [Rewrite board] ⓣ [▲] and [▼] buttons ☆ 13.5 MHz ± 0.1 MHz	(1) Select ADJUST MENU No. 113, "27 MHz VCO". (2) Adjust the frequency to the specified level. (3) Press the [SET] button to store the adjustment data.

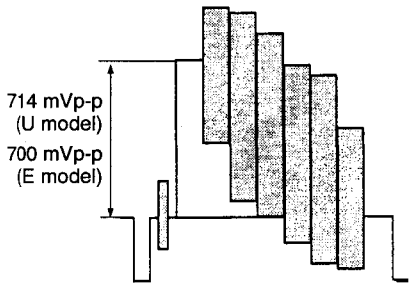
No.	Item	Measuring instruments & Input signals	Mode	Measuring point (◎) Adjustment parts (ⓣ) Adjustment level (☆)	Adjustment procedure

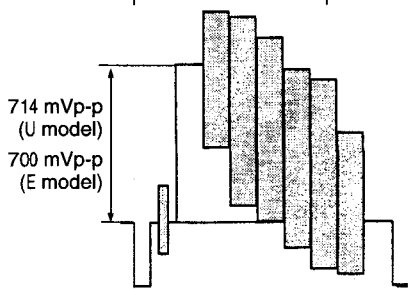
3.3 ADJUSTMENTS ON THE VIDEO BOARD

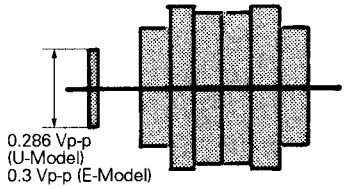
3.3.1 Video Adjustment

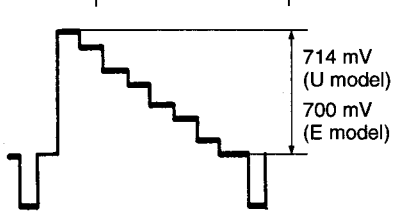
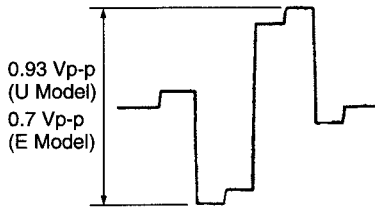
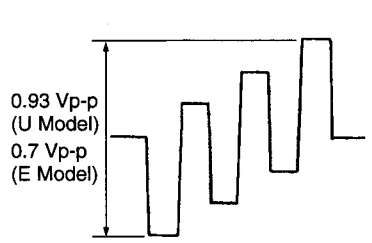
Preparation : Set the MENU SW "SYNC SELECT" of system to Extermal.
U : Set the MENU SW "SETUP" of VIDEO to ON.
E : Set the MENU SW "SETUP" of VIDEO to OFF.

1	LINE Y level adjustment	• Alignment tape • MC-1 (U model) • MC-2 (E model) Color bar Recorded section	PB	◎ LINE OUT (75 Ω terminated) ⓣ VR602 (VIDEO): 9D ☆ 714 mV (U model) 700 mV (E model)	(1) Play back the Alignment tape. (2) Adjust VR602 so that the Y level is as specified.
2	Y/C Y level adjustment	• Alignment tape • MC-1 (U model) • MC-2 (E model) Color bar Recorded section	PB	◎ Y/C Y OUT (75 Ω terminated) ⓣ VR603 (VIDEO): 13I ☆ 714 mV (U model) 700 mV (E model)	(1) Play back the Alignment tape. (2) Adjust VR603 so that the Y level is as specified.
3	Y/C C output level adjustment	• Alignment tape • MC-1 (U model) • MC-2 (E model) Color bar Recorded section	PB	◎ Y/C C OUT (75 Ω terminated) ⓣ VR604 (VIDEO 1): 9B ☆ 0.286 Vp-p (U model) 0.3 Vp-p (E model)	(1) Play back the Alignment tape. (2) Adjust VR604 so that the burst level at the C output of Y/C OUT is as specified.

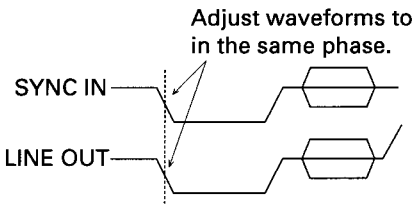




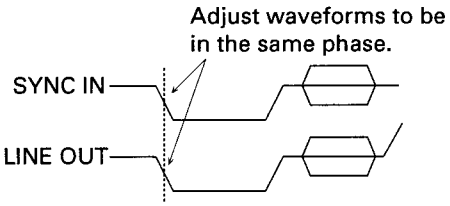


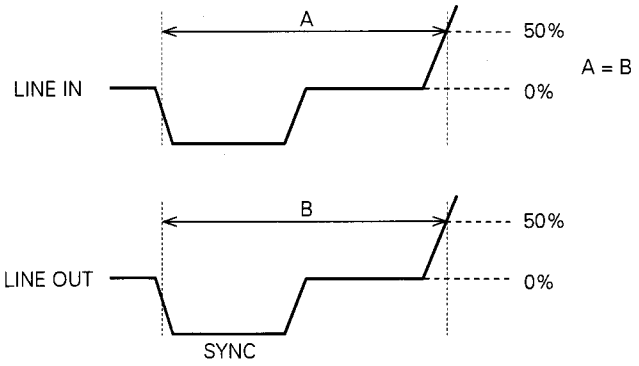
No.	Item	Measuring instruments & Input signals	Mode	Measuring point (◎) Adjustment parts (ⓣ) Adjustment level (☆)	Adjustment procedure
4	Component Y level adjustment	• Alignment tape • MC-1 (U model) • MC-2 (E model) Color bar Recorded section  	PB	◎ Component Y OUT (75Ω terminated) ⓣ VR605 (CPN Y): 6C ☆ 714 mVp-p (U model) 700 mVp-p (E model)	(1) Play back the Alignment tape. (2) Adjust VR605 so that the Y level is as specified.
5	R-Y level adjustment	• Alignment tape • MC-1 (U model) • MC-2 (E model) Color bar Recorded section  	PB	◎ Component R-Y OUT (75Ω terminated) ⓣ VR608 (VIDEO): 3H ☆ 0.93 Vp-p (U model) 0.7 Vp-p (E model)	(1) Play back the Alignment tape. (2) Adjust VR608 so that the R-Y level is as specified.
6	B-Y level adjustment	• Alignment tape • MC-1 (U model) • MC-2 (E model) Color bar Recorded section  	PB	◎ Component B-Y OUT (75Ω terminated) ⓣ VR606 (VIDEO): 3F ☆ 0.93 Vp-p (U model) 0.7 Vp-p (E model)	(1) Play back the Alignment tape. (2) Adjust VR606 so that the B-Y level is as specified.

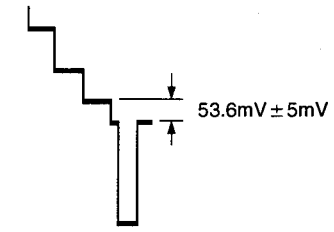
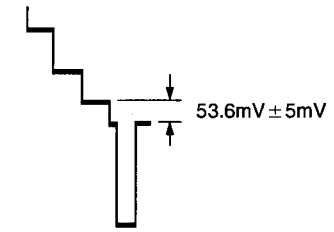
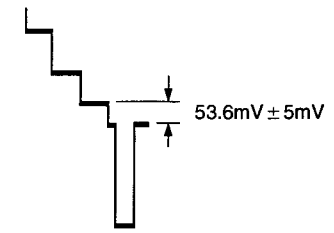
No.	Item	Measuring instruments & Input signals	Mode	Measuring point (◎) Adjustment parts (⊕) Adjustment level (☆)	Adjustment procedure
7	Internal 27 MHz adjustment	• Alignment tape • MC-1 (U model) • MC-2 (E model) Color bar Recorded section • Frequency counter • No input • Rewrite board	PB ADJUST MENU, 207. INT 27M ADJ	◎ TP3 GND: TP1 (GND) [Rewrite board] ⊕ [▲] and [▼] buttons ☆ 27 MHz ± 30 MHz	(1) Select ADJUST MENU No. 207, "INTERNAL 27M ADJ". (2) Adjust the Frequency to the specified level. (3) Press the [SET] button to store the adjustment data.
8	No Input 27MHz adjustment	• Frequency counter • No input • Rewrite board	EE ADJUST MENU, 208. NO IN 27M ADJ	◎ TP3 GND: TP1 (GND) [Rewrite board] ⊕ [▲] and [▼] buttons ☆ 27 MHz ± 30 Hz	(1) Select ADJUST MENU No. 208, "NO IN 27M". (2) Adjust the frequency to the specified level. (3) Press the [SET] button to store the adjustment data.
9	EXT H PHASE adjustment (PB_NTSC)	• Oscilloscope • Alignment tape MC-1 color bar • Composite color-bar signal (NTSC) ↓ SYNC IN	PB ADJUST MENU, 209. EXT H PHASE (NTSC)	◎ LINE OUT ⊕ [▲] and [▼] buttons ☆ LINE OUT and SYNC IN signal are same phase.	(1) Connect an oscilloscope to LINE OUT and SYNC IN terminals and set the oscilloscope to CHOP mode. (2) Select ADJUST MENU No. 209, "EXT H PHASE". (3) Adjust [▲] and [▼] so that LINE OUT and SYNC IN signals correspond to each other in the sync phase. (4) Press the [SET] button to store the adjustment data.

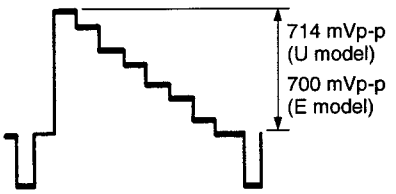
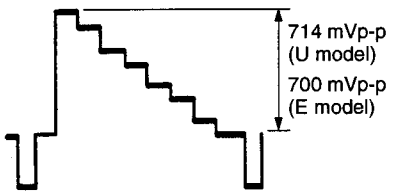
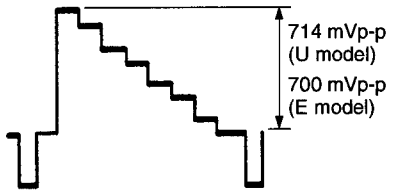


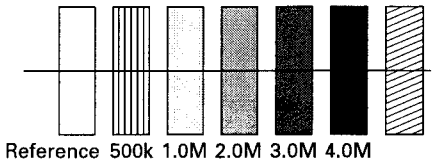
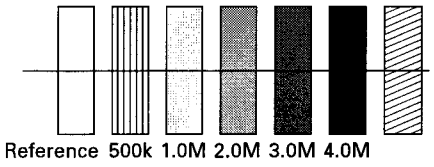
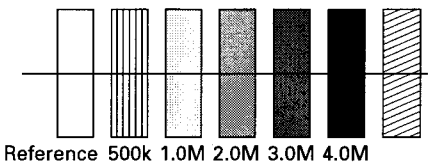
No.	Item	Measuring instruments & Input signals	Mode	Measuring point (◎) Adjustment parts (ⓣ) Adjustment level (☆)	Adjustment procedure
10	EXT H PHASE adjustment (PB_PAL)	• Oscilloscope • Alignment tape MC-2 color bar • Composite color bar signal (PAL) ↓ SYNC IN	PB ADJUST MENU, 210. EXT H PHASE (PAL)	◎ LINE OUT ⓣ [▲] and [▼] buttons ☆ SYNC IN and LINE OUT are same phase.	(1) Connect an oscilloscope to LINE OUT and SYNC IN terminals and set the oscilloscope to CHOP mode. (2) Select ADJUST MENU No. 210, "EXT H PHASE AD (PB_PAL)". (3) Adjust the [▲] and [▼] so that LINE OUT and SYNC IN signals correspond to each other in the sync phase. (4) Press the [SET] button to store the adjustment data.
11	IN H PHASE adjustment	• Oscilloscope • Composite color bar signal ↓ LINE IN	EE ADJUST MENU, 211. IN H PHASE ADJ	◎ LINE OUT ⓣ [▲] and [▼] buttons ☆ A = B	(1) Connect an oscope to LINE OUT and LINE IN terminals and set the oscilloscope to CHOP mode. (2) Select ADJUST MENU No. 211, "IN H PHASE ADJ". (3) Adjust the [▲] and [▼] so that LINE OUT and LINE IN signals correspond to each other (A = B). (4) Press the [SET] button to store the adjustment data.

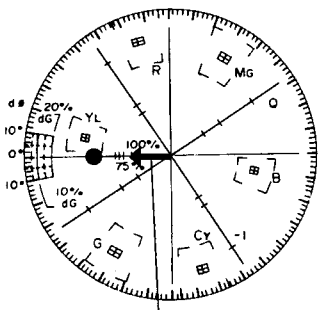
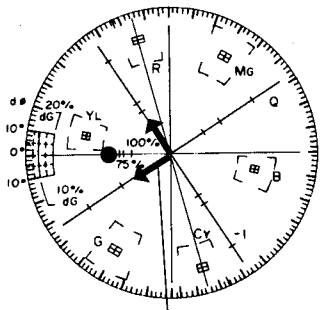
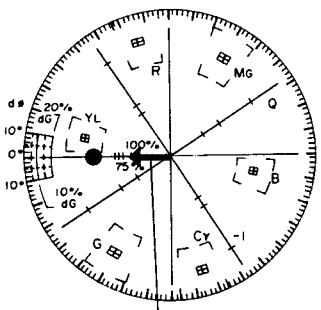
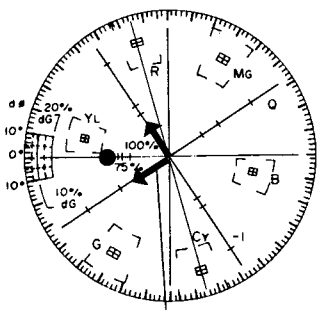
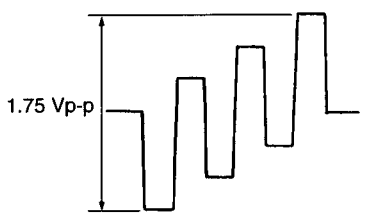


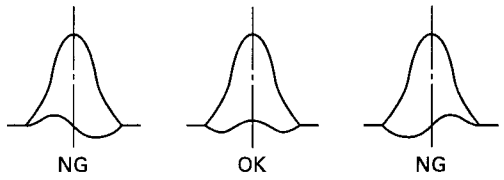
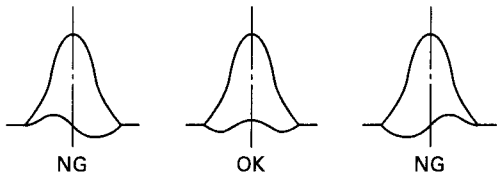
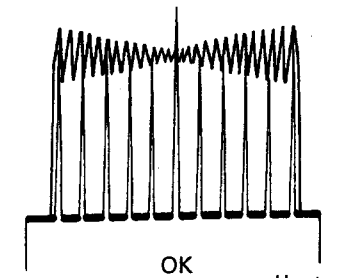
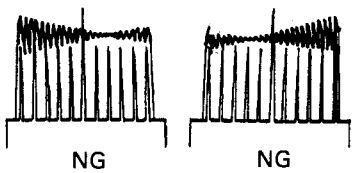


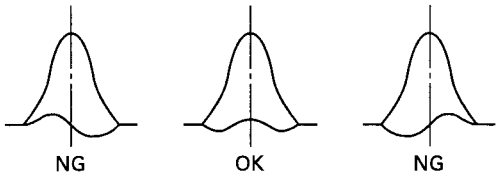
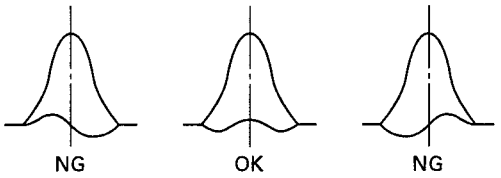
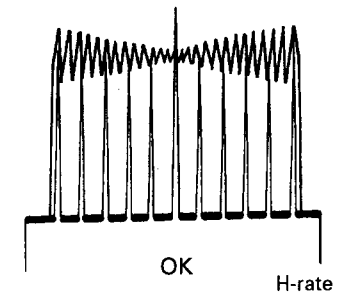
No.	Item	Measuring instruments & Input signals	Mode	Measuring point (◎) Adjustment parts (ⓣ) Adjustment level (☆)	Adjustment procedure
12	LINE IN SETUP level adjustment (U model only)	WFM or oscilloscope LINE IN. 100% color bar (SETUP 7.5%)	EE ADJUST MENU, 212. SETUP ADJ (LINE)	◎ LINE OUT (75 Ω terminated) ⓣ [▲] and [▼] buttons ☆ 53.6 ± 5 mV of the pedestal level	(1) Set the INPUT SELECT SW to LINE. (2) Select ADJUST MENU No. 212, "SETUP ADJ (LINE)". (3) Adjust so that the setup level is as specified. (4) Press the [SET] button to store the adjustment data.
		 Adjustment with setup			
13	Y/C IN SETUP level adjustment (U model only)	WFM or oscilloscope Y/C IN. 100% color bar (SETUP 7.5%)	EE ADJUST MENU, 213. SETUP ADJ (YC)	◎ Y/C Y OUT (75 Ω terminated) ⓣ [▲] and [▼] buttons ☆ 53.6 ± 5 mV of the pedestal level	(1) Set the INPUT SELECT SW to LINE. (2) Select ADJUST MENU No. 213, "SETUP ADJ (YC)". (3) Adjust so that the setup level is as specified. (4) Press the [SET] button to store the adjustment data.
		 Adjustment with setup			
14	COMPONENT SETUP level adjustment (U model only)	WFM or oscilloscope COMPONENT IN. 100% color bar (SETUP 7.5%)	EE ADJUST MENU, 214. SETUP ADJ (CPN)	◎ Component Y OUT (75 Ω terminated) ⓣ [▲] and [▼] buttons ☆ 53.6 ± 5 mV of the pedestal level	(1) Set the INPUT SELECT SW to LINE. (2) Select ADJUST MENU No. 214, "SETUP ADJ (CPN)". (3) Adjust so that the setup level is as specified. (4) Press the [SET] button to store the adjustment data.
		 Adjustment with setup			

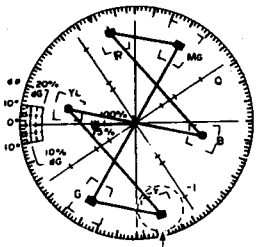
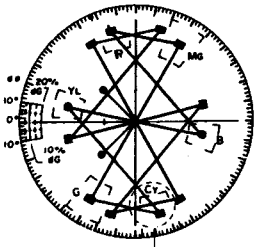
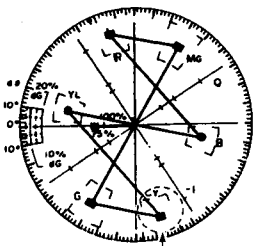
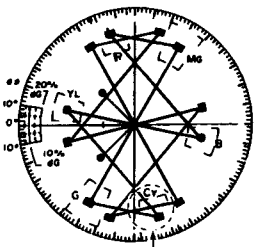
No.	Item	Measuring instruments & Input signals	Mode	Measuring point (◎) Adjustment parts (ⓣ) Adjustment level (☆)	Adjustment procedure
15	LINE IN Y level adjustment	WFM or oscilloscope LINE IN. 100% color bar U: SETUP 7.5% E: SETUP 0% 	EE ADJUST MENU, 215. Y ADJ (LINE)	◎ LINE OUT (75 Ω terminated) ⓣ [▲] and [▼] buttons ☆ U: 714 mVp-p (U model) E: 700 mVp-p (E model)	(1) Set the INPUT SELECT SW to LINE. (2) Select ADJUST MENU No. 215, "Y ADJ (LINE)". (3) Adjust so that the difference from the pedestal to 100% WHITE is as specified. (4) Press the [SET] button to store the adjustment data.
16	Y/C IN Y level adjustment	WFM or oscilloscope Y/C IN. 100% color bar U: SETUP 7.5% E: SETUP 0% 	EE ADJUST MENU, 216. Y ADJ (YC)	◎ Y/C Y OUT (75 Ω terminated) ⓣ [▲] and [▼] buttons ☆ U: 714 mVp-p (U model) E: 700 mVp-p (E model)	(1) Set the INPUT SELECT SW to LINE. (2) Select ADJUST MENU No. 216, "Y ADJ (YC)". (3) Adjust so that the difference from the pedestal to 100% WHITE is as specified. (4) Press the [SET] button to store the adjustment data.
17	COMPONENT IN REC Y level adjustment	WFM or oscilloscope COMPONENT IN. 100% color bar U: SETUP 7.5% E: SETUP 0% 	EE ADJUST MENU, 217. Y ADJ (CPN)	◎ Component Y OUT (75 Ω terminated) ⓣ [▲] and [▼] buttons ☆ U: 714 mVp-p (U model) E: 700 mVp-p (E model)	(1) Set the INPUT SELECT SW to LINE. (2) Select ADJUST MENU No. 217, "Y ADJ (CPN)". (3) Adjust so that the difference from the pedestal to 100% WHITE is as specified. (4) Press the [SET] button to store the adjustment data.

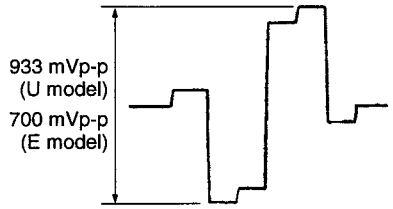
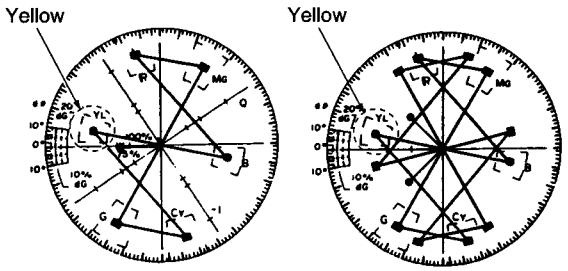
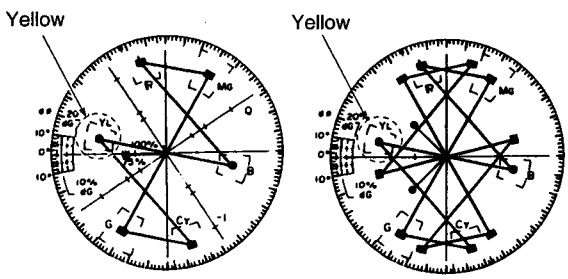
No.	Item	Measuring instruments & Input signals	Mode	Measuring point (◎) Adjustment parts (⓵) Adjustment level (☆)	Adjustment procedure
18	LINE IN REC Y Frequency response adjustment	Oscilloscope LINE input multi burst signal  	EE ADJUST MENU, 218. REC YFREQ ADJ(LINE)	◎ LINE OUT (75 Ω terminated) ⓵ [▲] and [▼] buttons	(1) Set the INPUT SELECT SW to LINE. (2) Select ADJUST MENU No. 218, "REC YFREQ ADJ (LINE)". (3) Adjust to equalize 4MHz signal level with 500KHz signal level. (4) Press [SET] button to store the adjustment data.
19	Y/C IN REC Y Frequency response adjustment	Oscilloscope Y/C input Multi burst signal  	EE ADJUST MENU, 219. REC YFREQ ADJ (YC)	◎ Y/C Y OUT (75 Ω terminated) ⓵ [▲] and [▼] buttons	(1) Set the INPUT SELECT SW to LINE. (2) Select ADJUST MENU No. 219, "REC YFREQ ADJ (YC)". (3) Adjust to equalize 4MHz signal level with 500 KHz signal level. (4) Press [SET] button to store the adjustment data.
20	COMPONENT IN REC Y Frequency response adjustment	Oscilloscope Component input Multi burst signal  	EE ADJUST MENU, 220. REC YFREQ ADJ (CPN)	◎ Component Y OUT (75 Ω terminated) ⓵ [▲] and [▼] buttons	(1) Set the INPUT SELECT SW to LINE. (2) Select ADJUST MENU No. 220, "REC YFREQ ADJ (CPN)". (3) Adjust to equalize 4 MHz signal level with 500 KHz signal level. (4) Press [SET] button to store the adjustment data.

No.	Item	Measuring instruments & Input signals	Mode	Measuring point (◎) Adjustment parts (ⓣ) Adjustment level (☆)	Adjustment procedure
21	HUE adjustment (LINE)	Vectorscope LINE input Modulated 5 step	EE ADJUST MENU 222	◎ LINE OUT (75 Ω terminated) ⓣ [▲] and [▼] buttons	(1) Set the INPUT SELECT SW to LINE. (2) Select ADJUST MENU No. 222, "HUE ADJ (LINE)". (3) Adjust to equalize color phase with burst signal (U model). Adjust to color phase is center between two burst signals (E model). (4) Press [SET] button to store the adjustment data.
		 Burst signal [U MODEL]		 Burst signal [E MODEL]	
22	HUE adjustment (Y/C)	Vectorscope Y/C input Modulated 5 step	EE ADJUST MENU 223	◎ Y/C C OUT (75 Ω terminated) ⓣ [▲] and [▼] buttons	(1) Set the INPUT SELECT SW to LINE. (2) Select ADJUST MENU No. 223, "HUE ADJ (YC)". (3) Adjust to equalize color phase with burst signal (U model). Adjust to color phase is center between two burst signals (E model). (4) Press [SET] button to store the adjustment data.
		 Burst signal [U MODEL]		 Burst signal [E MODEL]	
23	ACC COLOR LEVEL adjustment	Oscilloscope 100% color bar U: SETUP 7.5% E: SETUP 0%	EE ADJUST MENU, 221. ACC CLEV	◎ TP209 (VIDEO) GND : AG (VIDEO) ⓣ [▲] and [▼] buttons	(1) Set the INPUT SELECT SW to LINE. (2) Select ADJUST MENU No. 221, "ACC CLEV". (3) Adjust so that the ACC CLEVEL is as specified. (4) Press [SET] button to store the adjustment data. **NOTE:** **This ITEM must be adjusted after completion of ITEM No. 21 and No. 22.**
					

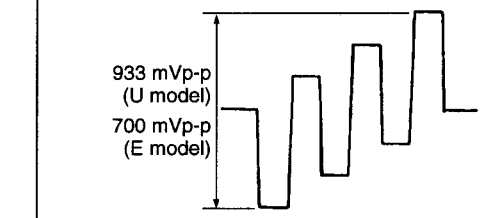
No.	Item	Measuring instruments & Input signals	Mode	Measuring point (◎) Adjustment parts (⊕) Adjustment level (☆)	Adjustment procedure
24	R-Y DL ADJ (LINE)	Oscilloscope LINE input Pulse & bar signal	EE ADJUST MENU 224 R-Y DL ADJ (LINE)	◎ LINE OUT (75 Ω terminated) ⊕ [▲] and [▼] buttons	(1) Set the INPUT SELECT SW to LINE. (2) Select ADJUST MENU No. 224, "R-Y DL ADJ (LINE)". (3) Adjust so that the waveform of the Modulate section of pulse & bar signal is symmetrical. (4) Press [SET] button to store the adjustment data.
		 12.5T modulate section			
25	R-Y DL ADJ (Y/C)	Oscilloscope Y/C input Pulse & bar signal	EE ADJUST MENU 225 R-Y DL ADJ (YC)	◎ Y/C Y & C OUT (75 Ω terminated) ⊕ [▲] and [▼] buttons	(1) Set the INPUT SELECT SW to LINE. (2) Select ADJUST MENU No. 225, "R-Y DL ADJ (YC)". (3) Adjust buttons so that the waveform of the Modulate section of pulse & bar signal is symmetrical. (4) Press [SET] button to store the adjustment data.
		 12.5T modulate section			
26	R-Y DL ADJ (CPN)	Oscilloscope Component input Bowtie	EE ADJUST MENU 226 R-Y DL ADJ (CPN)	◎ Component Y & R-Y OUT (75 Ω terminated) ⊕ [▲] and [▼] buttons	(1) Set the INPUT SELECT SW to LINE. (2) Connect the oscilloscope's CH-1 with COMPONENT Y OUT terminal while connecting its CH-2 with the R-Y terminal, and set the oscilloscope for ADD mode with the same range for both the channels. Set its CH-2 to INV. mode. (3) Select ADJUST MENU No. 226, "R-Y DL ADJ (CPN)". (4) Adjust so that the crossover point of the signals apporoximately correspond to the center marker. (5) Press [SET] button to store the adjustment data.
		 			

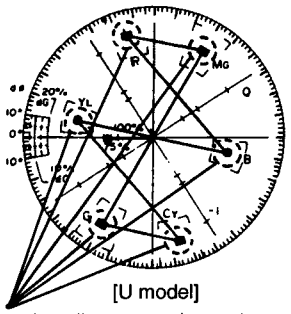
No.	Item	Measuring instruments & Input signals	Mode	Measuring point (◎) Adjustment parts (⊕) Adjustment level (☆)	Adjustment procedure
27	B-Y DL ADJ (LINE)	Oscilloscope LINE input Pulse & bar signal	EE ADJUST MENU 227 B-Y DL ADJ (LINE)	◎ LINE OUT (75 Ω terminated) ⊕ [▲] and [▼] buttons	(1) Set the INPUT SELECT SW to LINE. (2) Select ADJUST MENU No. 227, "B-Y DL ADJ (LINE)". (3) Adjust so that the waveform of the Modulate section of pulse & bar signal is symmetrical. (4) Press [SET] button to store the adjustment data.
		 12.5T modulate section			
28	B-Y DL ADJ (Y/C)	Oscilloscope Y/C input Pulse & bar signal	EE ADJUST MENU 228 B-Y DL ADJ (YC)	◎ Y/C Y & C OUT (75 Ω terminated) ⊕ [▲] and [▼] buttons	(1) Set the INPUT SELECT SW to LINE. (2) Select ADJUST MENU No. 228, "B-Y DL ADJ (YC)". (3) Adjust so that the waveform of the Modulate section of pulse & bar signal is symmetrical. (4) Press [SET] button to store the adjustment data.
		 12.5T modulate section			
29	B-Y DL ADJ (CPN)	Oscilloscope Component input Pulse & bar signal	EE ADJUST MENU 229 B-Y DL ADJ (CPN)	◎ Component Y & B-Y OUT (75 Ω terminated) ⊕ [▲] and [▼] buttons	(1) Set the INPUT SELECT SW to LINE. (2) Connect the ocillscope's CH-1 with COMPONENT Y OUT terminal while connecting its CH-2 with the B-Y terminal, and set the ocilloscope for ADD mode with the same range for both the channels. Set its CH-2 to INV. mode. (3) Select ADJUST MENU No. 229, "B-Y DL ADJ (CPN)". (4) Adjust so that the crossover point of the signals apporoximately correspond to the center marker. (5) Press [SET] button to store the adjustment data.
					

No.	Item	Measuring instruments & Input signals	Mode	Measuring point (◎) Adjustment parts (ⓣ) Adjustment level (☆)	Adjustment procedure
30	R-Y ADJ (LINE)	Vectorscope LINE input 100% color bar U: SETUP 7.5% E: SETUP 0%  Cyan [U model]  Cyan [E model]	EE ADJUST MENU 230 R-Y ADJ (LINE)	◎ LINE OUT (75 Ω terminated) ⓣ [▲] and [▼] buttons	1) Set the INPUT SELECT SW to LINE. 2) Select ADJUST MENU No. 230, "R-Y ADJ (LINE)". 3) Adjust the vectorscope's GAIN control to return the luminescent spot of the burst signal to the original position. 4) Adjust to luminescent spot of cyan in the ⊞ mark on the vectorscope. 5) Press [SET] button to store the adjustment data.
31	R-Y ADJ (Y/C)	Vectorscope Y/C input 100% color bar U: SETUP 7.5% E: SETUP 0%  Cyan [U model]  Cyan [E model]	EE ADJUST MENU 231 R-Y ADJ (YC)	◎ Y/C C OUT (75 Ω terminated) ⓣ [▲] and [▼] buttons	(1) Set the INPUT SELECT SW to LINE. (2) Select ADJUST MENU No. 231, "R-Y ADJ (YC)". (3) Adjust the vectorscope's GAIN control to return the luminescent spot of the burst signal to the original position. (4) Adjust to luminescent spot of cyan in the ⊞ mark on the vectorscope. (5) Press [SET] button to store the adjustment data.

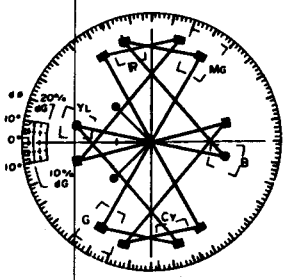
No.	Item	Measuring instruments & Input signals	Mode	Measuring point (◎) Adjustment parts (ⓣ) Adjustment level (☆)	Adjustment procedure
32	R-Y ADJ (CPN)	Vectorscope Component input 100% color bar U: SETUP 7.5% E: SETUP 0%	EE ADJUST MENU 232 R-Y ADJ (CPN)	◎ R-Y OUT (COMPONENT Y) (75 Ω terminated) ⓣ [▲] and [▼] buttons ☆ U: 933 mVp-p (U model) E: 700 mVp-p (E model) 	(1) Set the INPUT SELECT SW to LINE. (2) Select ADJUST MENU No. 232, "R-Y ADJ (CPN)". (3) Adjust so that the R-Y LEVEL is as specified. (4) Press [SET] button to store the adjustment data.
33	B-Y ADJ (LINE)	Vectorscope LINE input 100% color bar U: SETUP 7.5% E: SETUP 0%	EE ADJUST MENU 233 B-Y ADJ (LINE)	◎ LINE OUT (75 Ω terminated) ⓣ [▲] and [▼] buttons  [U model] [E model]	(1) Set the INPUT SELECT SW to LINE. (2) Select ADJUST MENU No. 233, "B-Y ADJ (LINE)". (3) Adjust the vectorscope's GAIN control to return the luminescent spot of the burst signal to the original position. (4) Adjust to luminescent spot of yellow in the ⊞ mark on the vectorscope. (5) Press [SET] button to store the adjustment data.
34	B-Y ADJ (Y/C)	Vectorscope Y/C input 100% color bar U: SETUP 7.5% E: SETUP 0%	EE ADJUST MENU 234 B-Y ADJ (YC)	◎ Y/C C OUT (75 Ω terminated) ⓣ [▲] and [▼] buttons  [U model] [E model]	(1) Set the INPUT SELECT SW to LINE. (2) Select ADJUST MENU No. 234, "B-Y ADJ (YC)". (3) Adjust the vectorscope's GAIN control to return the luminescent spot of the burst signal to the original position. (4) Adjust to luminescent spot of yellow in the ⊞ mark on the vectorscope. (5) Press [SET] button to store the adjustment data.

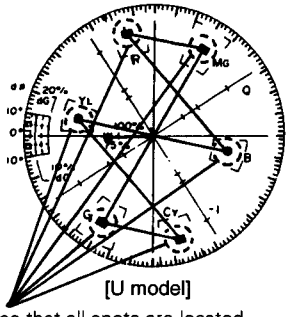
No.	Item	Measuring instruments & Input signals	Mode	Measuring point (◎) Adjustment parts (⊕) Adjustment level (☆)	Adjustment procedure
35	B-Y ADJ (CPN)	Vectorscope Component input 100% color bar U: SETUP 7.5% E: SETUP 0%	EE ADJUST MENU 235 B-Y ADJ (CPN)	◎ B-Y OUT (COMPONENT Y) (75 Ω terminated) ⊕ [▲] and [▼] buttons ☆ U: 933 mVp-p (U model) E: 700 mVp-p (E model)	(1) Set the INPUT SELECT SW to LINE. (2) Select ADJUST MENU No. 235, "B-Y ADJ (CPN)". (3) Adjust so that the B-Y LEVEL is as specified. (4) Press [SET] button to store the adjustment data.
36	HUE ADJ (LINE)	Vectorscope LINE input 100% color bar U: SETUP 7.5% E: SETUP 0%	EE ADJUST MENU 222 HUE ADJ (LINE)	◎ LINE OUT (75 Ω terminated) ⊕ [▲] and [▼] buttons	(1) Set the INPUT SELECT SW to LINE. (2) Select ADJUST MENU No. 222, "HUE ADJ (LINE)". (3) Adjust the vectorscope's GAIN control to return the luminescent spot of the burst signal to the original position. (4) Adjust to luminescent all spot in the ⊞ mark on the vectorscope. (5) Press [SET] button to store the adjustment data.
37	HUE ADJ (Y/C)	Vectorscope Y/C input 100% color bar U: SETUP 7.5% E: SETUP 0%	EE ADJUST MENU 223 HUE ADJ (YC)	◎ Y/C C OUT (75 Ω terminated) ⊕ [▲] and [▼] buttons	(1) Set the INPUT SELECT SW to LINE. (2) Select ADJUST MENU No. 234, "B-Y ADJ (YC)". (3) Adjust the vectorscope's GAIN control to return the luminescent spot of the burst signal to the original position. (4) Adjust to luminescent spot of yellow in the ⊞ mark on the vectorscope.



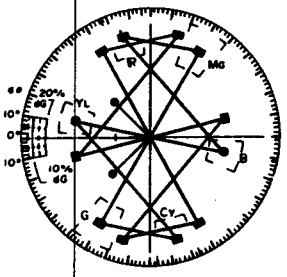

[U model]

Adjusts so that all spots are located at the center of ⊞ mark.


[E model]


[U model]

Adjusts so that all spots are located at the center of ⊞ mark.


[E model]

No.	Item	Measuring instruments & Input signals	Mode	Measuring point (◎) Adjustment parts (ⓣ) Adjustment level (☆)	Adjustment procedure

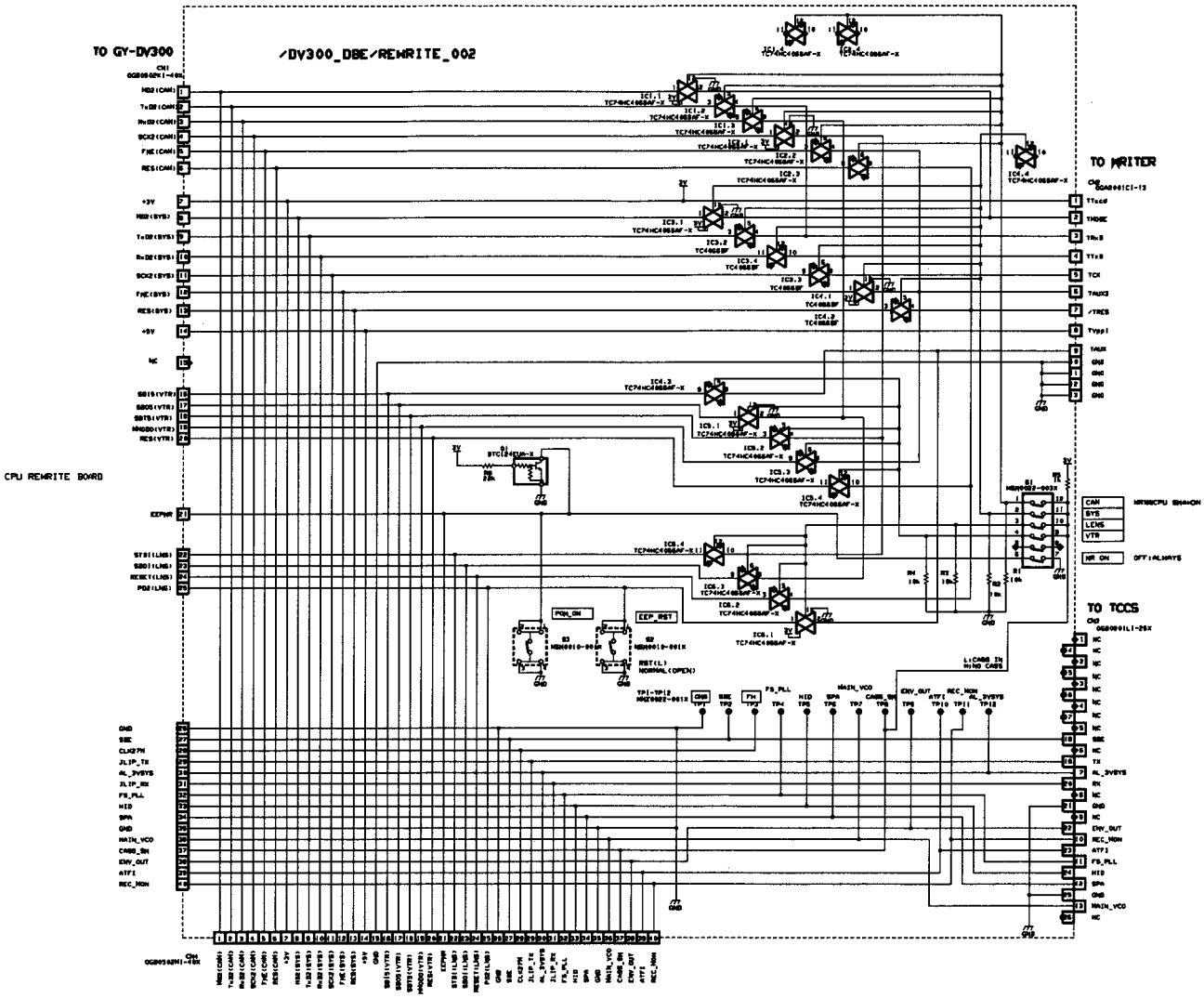
3.4 AUDIO ADJUSTMENT

1	Audio output (RCA) adjustment	Audio tester Internal audio signal	EE ADJUST MENU 258 AUDIO LEVEL ADJ	◎ AUDIO OUT (RCA) ⓣ VR101 (CH-1) (SYS/AUDIO Board) VR102 (CH-2) (SYS/AUDIO Board) ☆ +12 dBm ± 0.5 dB	(1) Select ADJUST MENU No. 258, "AUDIO LEVEL ADJ". (2) Adjust VR101 and VR102 so that the audio outputs are as spcified.
2	Audio output (XLR) adjustment	Audio tester Internal audio signal	EE ADJUST MENU 258 AUDIO LEVEL ADJ	◎ AUDIO OUT(XLR) ⓣ VR103 (CH-1) (SYS/AUDIO Board) VR104 (CH-2) (SYS/AUDIO Board) ☆ +24 dBm ± 0.5 dB	(1) Install the SA-X62U (optional Board). (2) Select ADJUST MENU No. 258, "AUDIO LEVEL ADJ". (3) Adjust VR103 and VR104 so that the audio outputs are as spcified.

3.5 LCD ADJUSTMENT

1	COMMON DC	Alignment tape MC-1	PB ADJUST MENU 249 COMMON DC	◎ LCD MONIITOR ⓣ [▲] and [▼] buttons	(1) Adjiust so that flicker is minimized on the LCD monitor. (2) Press [SET] button to store the adjustment data.
2	VCO FINE (PB_NTSC)	Alignment tape MC-1	PB ADJUST MENU 251 VCO FINE (PB_NTSC)	◎ LCD MONIITOR ⓣ [▲] and [▼] buttons	(1) Adjiust so that picture is the steadiest on the LCD monitor. (2) Press [SET] button to store the adjustment data.
3	VCO FINE (PB_PAL)	Alignment tape MC-2	PB ADJUST MENU 252 VCO FINE (PB_PAL)	◎ LCD MONIITOR ⓣ [▲] and [▼] buttons	(1) Adjiust so that picture is the steadiest on the LCD monitor. (2) Press [SET] button to store the adjustment data.
4	H-POSITON (PB_NTSC)	Alignment tape MC-1 (animated image recorded section)	PB ADJUST MENU 256 H-POSITION (PB_NTSC)	◎ LCD MONIITOR ⓣ [▲] and [▼] buttons	(1) Adjiust so that picture is the steadiest on the LCD monitor. (2) Press [SET] button to store the adjustment data.
5	H-POSITON (PB_PAL)	Alignment tape MC-2 (animated image recorded section)	PB ADJUST MENU 257 H-POSITION (PB_NTSC)	◎ LCD MONIITOR ⓣ [▲] and [▼] buttons	1) Adjiust so that picture is center on the LCD monitor. 2) Press [SET] button to store the adjustment data.

3.6 REWRITE BOARD

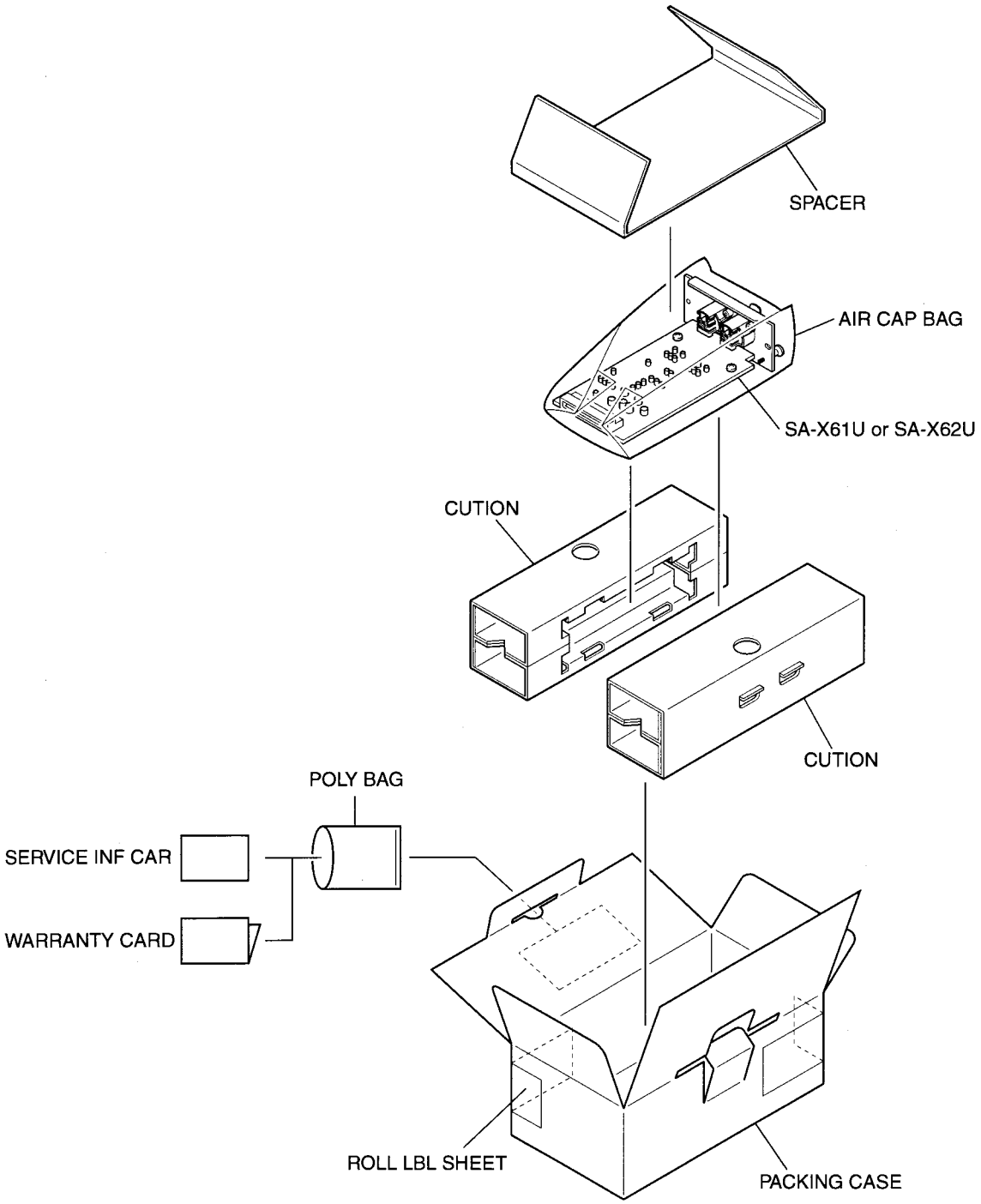


S1			S2	S3
Pin No.	Initial	Parameter	Reset for EEP-ROM (LENS) data. (for GY-DV300)	Power ON switch (for GY-DV300)
1	OFF	ON : Enable to rewrite CAM CPU (for GY-DV300) (*Note)		
2	OFF	ON : Enable to rewrite SYS CPU		
3	OFF	ON : Enable to rewrite LENS CPU		
4	OFF	ON : Enable to rewrite VTR (MSD) CPU (*Note)		
5	OFF	Not used		
6	OFF	Not used (for GY-DV300)		

*Note : When rewriting the VTR (MSD) firmware, both of switch S1 - 1 and 4 should be set to "ON".

SECTION 4
PACKING

4.1 PACKING M 3



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SECTION 4
CHARTS AND DIAGRAMS

■ SCHEMATIC DIAGRAM NOTES

- **Schematic safety precaution**
  ⚠ Parts are safety related parts.
  When replacing them, be sure to use the specified parts.
- **Voltage and waveform measurements**
  Voltage: Measured with digital voltmeter in DC range; in REC mode.
  Value in ( ) is indicated only in the case PB voltage is different from that in REC mode.
  Waveform: Measured by supplying the 100% color bar signal and 1kHz, -8dB sine wave in REC or PB mode.
  Switch setting : VIDEO INPUT SELECT : LINE
  MENU : Initial setting.
- **Unit of value**
  Unless otherwise specified
  1) Resistance is in Ω (1/6 W)
  2) Capacitance is in μF
  3) Inductance is in μH
- **Expression of wiring**

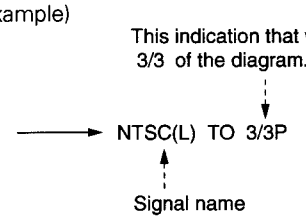
As the following circuit diagram is divided to print on some sheets, such an indication as the following is found in the case the wiring extends over two or more divided sections.

1) Circuit diagram divided into two or more sections:

Board	Board Name	Number of divided sections
0 1	VIDEO	1/6 to 6/6
0 2	SYS/AUDIO	1/4 to 4/4
1 1	DV/CPU	1/4 to 4/4
1 2	MDA/DC	1/4 to 4/4
—	OVERALL	1/2 to 2/2

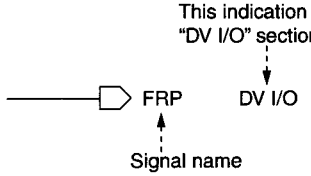
2) Indication of wiring which extends to another section:
(Example)

A)



In the above case, the end of the wiring is connected to the "NTSC(L)" on the 3nd section of the diagram.

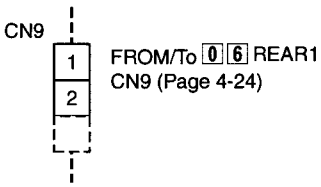
B)



In the above case, the end of the wiring is connected to the "FRP" on the "DV I/O" section of the diagram.

- **Wiring of connector**

(Example)



In the above example, CN9 is connected with CN9 on 0 6 REAR1 board.

- **Signal flow on the diagram**

The following allow marks indicate the specified signal paths respectively.

➡ : Recording or EE signal path
⇨ : Playback signal ptah
➡ : Recording and Playback signal path

- **Others**

In regard of a board assembly whose circuit is composed of multilayered board patterns such 4- or 6-layered patterns, board patterns of the power supply lines and grounding lines are omitted in this section.

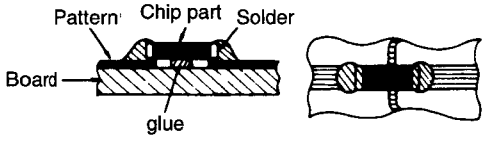
Note: For detail of each electrical part, refer to Section 6 "ELECTRICAL PARTS LIST" by it symbol number.

■ REPLACING SURFACE MOUNT "CHIP" COMPONENTS

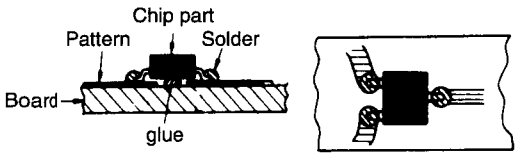
- Some resistors, shorting jumpers (0 resistance), ceramic capacitors, transistors, and diodes are chip parts. These chip parts cannot be reused after they are once removed.
- Chip resistors used in some circuits are of high precision type having little error in resistance.
  To demonstrate the full capacity of this set, place an order for proper parts referring to the diagrams and parts lists in the section 5.
- Soldering cautions:
  1) Do not apply heat for more than 3 seconds.
  2) Avoid using a rubbing stroke when soldering.
  3) Discard removed chips; do not reuse them.
  4) Supplementary cementing is not required.
  5) Use care not to scratch or otherwise damage the chips.

(1) Soldered condition of chip parts

- Resistors, capacitors, etc.



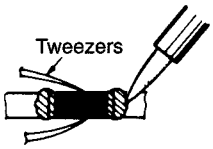
- Transistors, diodes, etc.



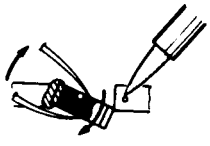
(2) Removing of chip parts

- Resistors, capacitors, etc.
  i) Melt solder at a side.

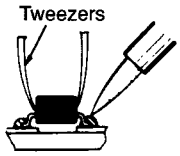
ii) Holding the chip with tweezers, melt solder at the other side.



iii) Take off the chip in twisting and sliding motion.

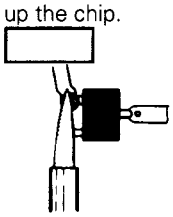


- Transistors, diodes, etc.
  i) Melt solder at the side of single lead.



ii) Lift the unsolderd side upwards.

iii) Simultaneously melt solder at two leads of the other side and pull up the chip.

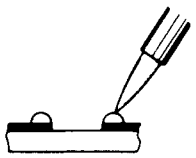


(3) Preheating and soldering of chip parts

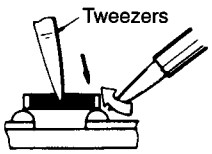
Except transistors, make sure to preheat all chip parts, capacitors in particular, with a hot wind of 150°C approx. (of a hair dryer, etc.) for 2 minutes just before soldering, and immediately solder by a soldering iron of approx. 30 W.

(4) Attaching of chip parts

i) Heap up a proper amount of solder beforehand.



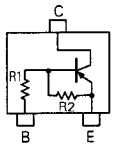
ii) Holding down a new chip by tweezers, solder it to the board by a soldering iron to melt solder from its lower part to the upper part (in the direction shown by a big arrow).



■ CHIP PARTS PIN ARRANGEMENT

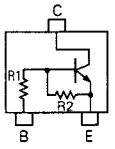
[1] Digital transistors

DTC 1 □□□□
① ②③



(Top view)

DTA 1 □□□□
DTB 1 □□□□
① ②③



(Top view)

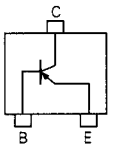
① Two digits show resistance of R1 in abbreviation.
- 43 : 4.7 kΩ
- 14 : 10 kΩ
- 24 : 22 kΩ
- 44 : 47 kΩ

② Roman letter show the resistive ratio between R1 and R2 in abbreviation.
- E : R2/R1 = 1/1
- Y : R2/R1 = 5/1
- W : R2/R1 = 2/1
- X : R2/R1 = 1/2
- T : R2 is opened.

③ Symbol the shape of resistor in abbreviation.

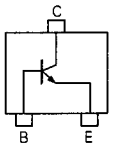
[2] Chip transistors and chip F.E.T.s

2SA □□□□
2SB □□□□



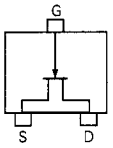
(Top view)

2SC □□□□
2SD □□□□



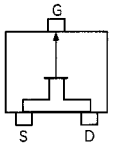
(Top view)

2SK □□□□



(Top view)

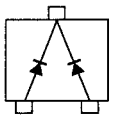
2SJ □□□□



(Top view)

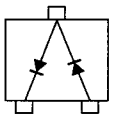
[3] Chip diodes

MA143A/MA742



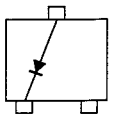
(Top view)

MA142WA



(Top view)

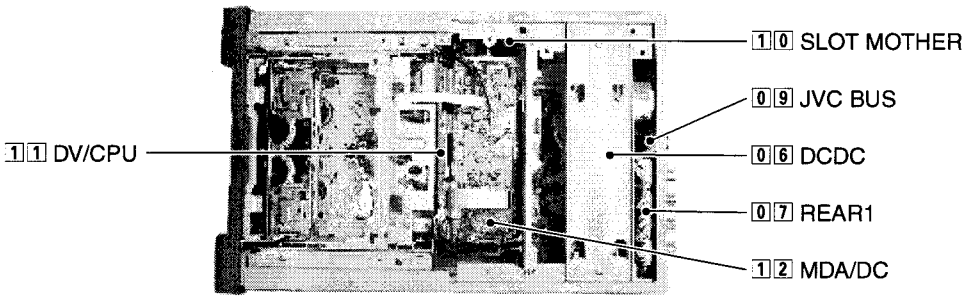
MA142A



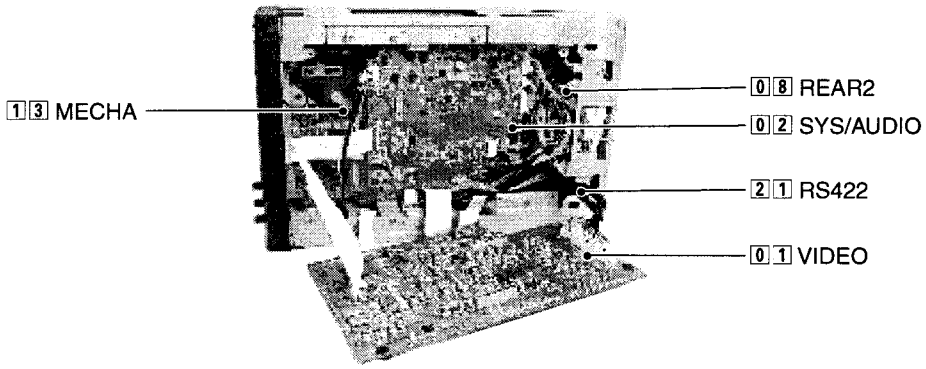
(Top view)

4.1 INDEX TO PAGES OF MAIN BOARDS AND CIRCUIT BOARD LOCATION

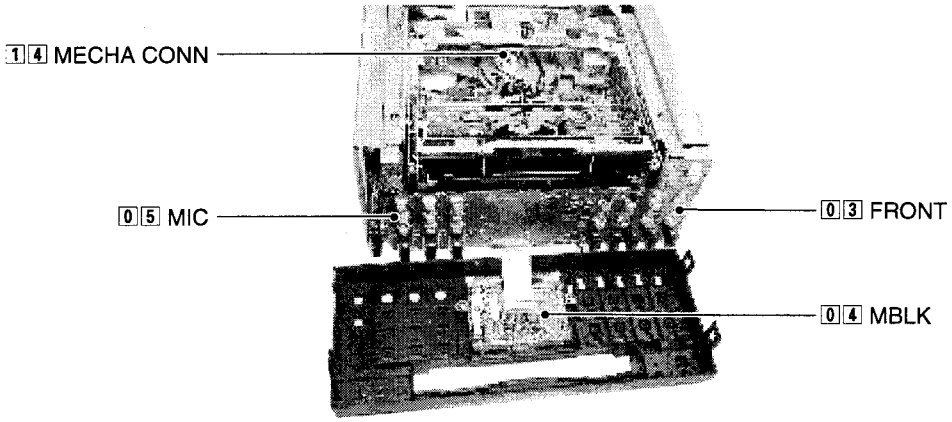
TOP VIEW



BOTTOM VIEW



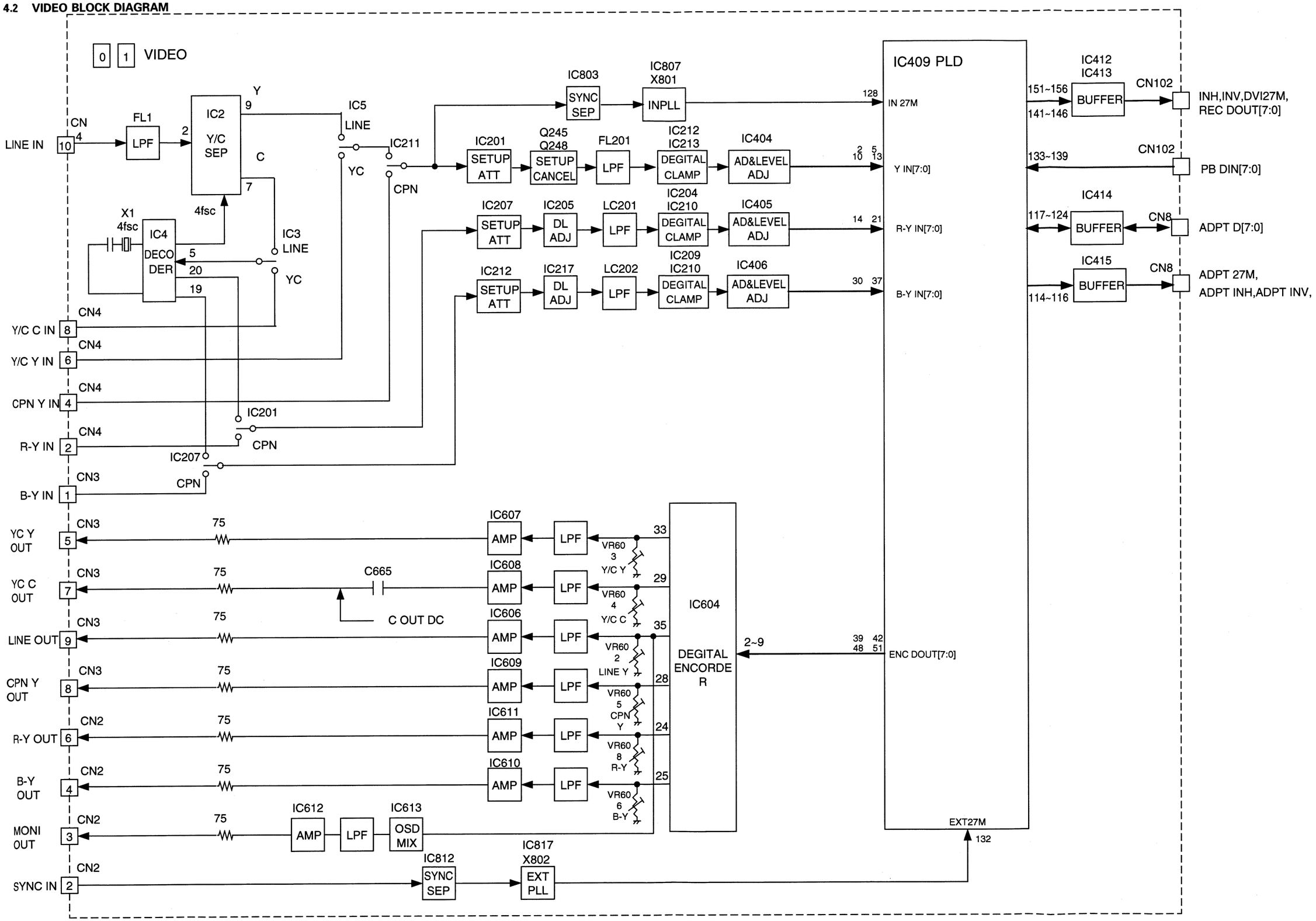
FRONT VIEW



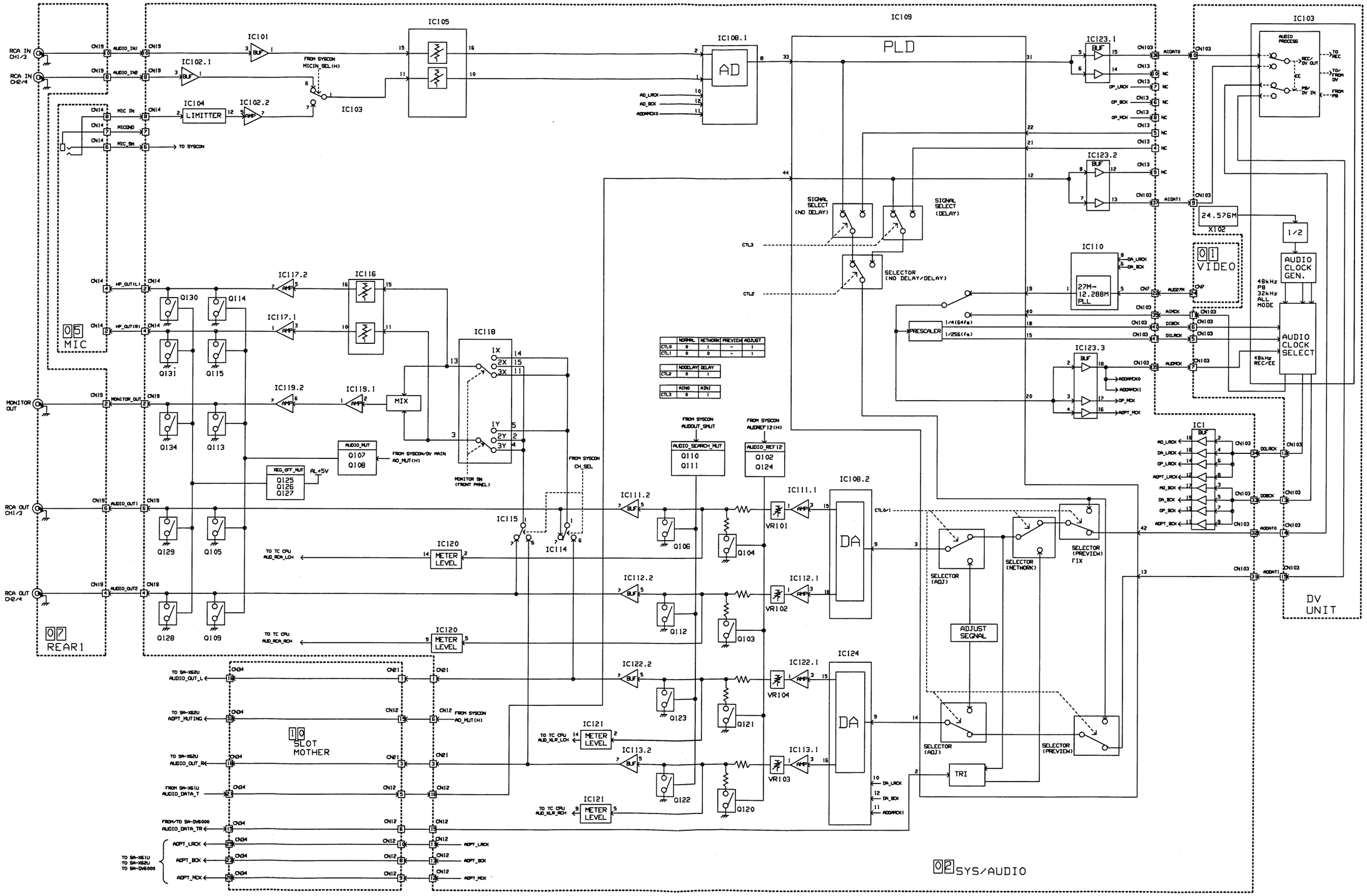
Board No.	Board Name	Page of diagram		
		Block diagram	Schematic diagram	Circuit board
01	VIDEO	4-5	4-12 to 4-17	4-18, 4-19
02	SYS/AUDIO	4-6, 4-7	4-20 to 4-23	4-24, 4-25
03	FRONT	—	4-26	4-27
04	MBLK	—	4-44	4-43
05	MIC	—	4-45	4-46
06	DCDC	4-8	4-28	4-29
07	REAR1	—	4-42	4-43

Board No.	Board Name	Page of diagram		
		Block diagram	Schematic diagram	Circuit board
08	REAR2	—	4-44	4-46
09	JVCBUS	—	4-45	4-46
10	SLOT MOTHER	—	4-45	4-46
11	DV/CPU	—	4-30 to 4-33	4-34
12	MDA/DC	—	4-36 to 4-39	4-35
13	MECHA	—	4-40	4-41
14	MECHA CONN	—	4-40	4-41
21	RS422	—	4-45	4-46

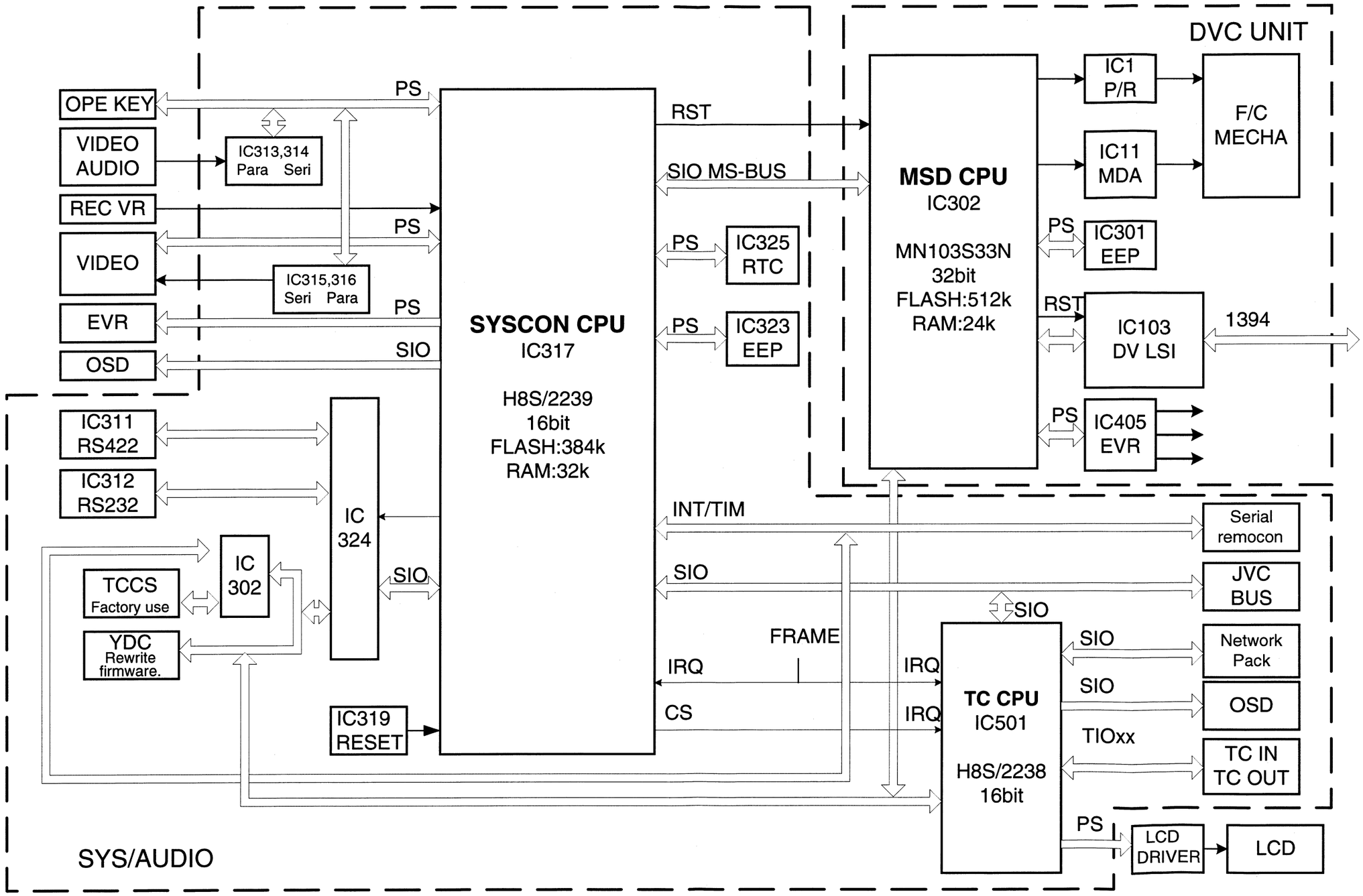
4.2 VIDEO BLOCK DIAGRAM



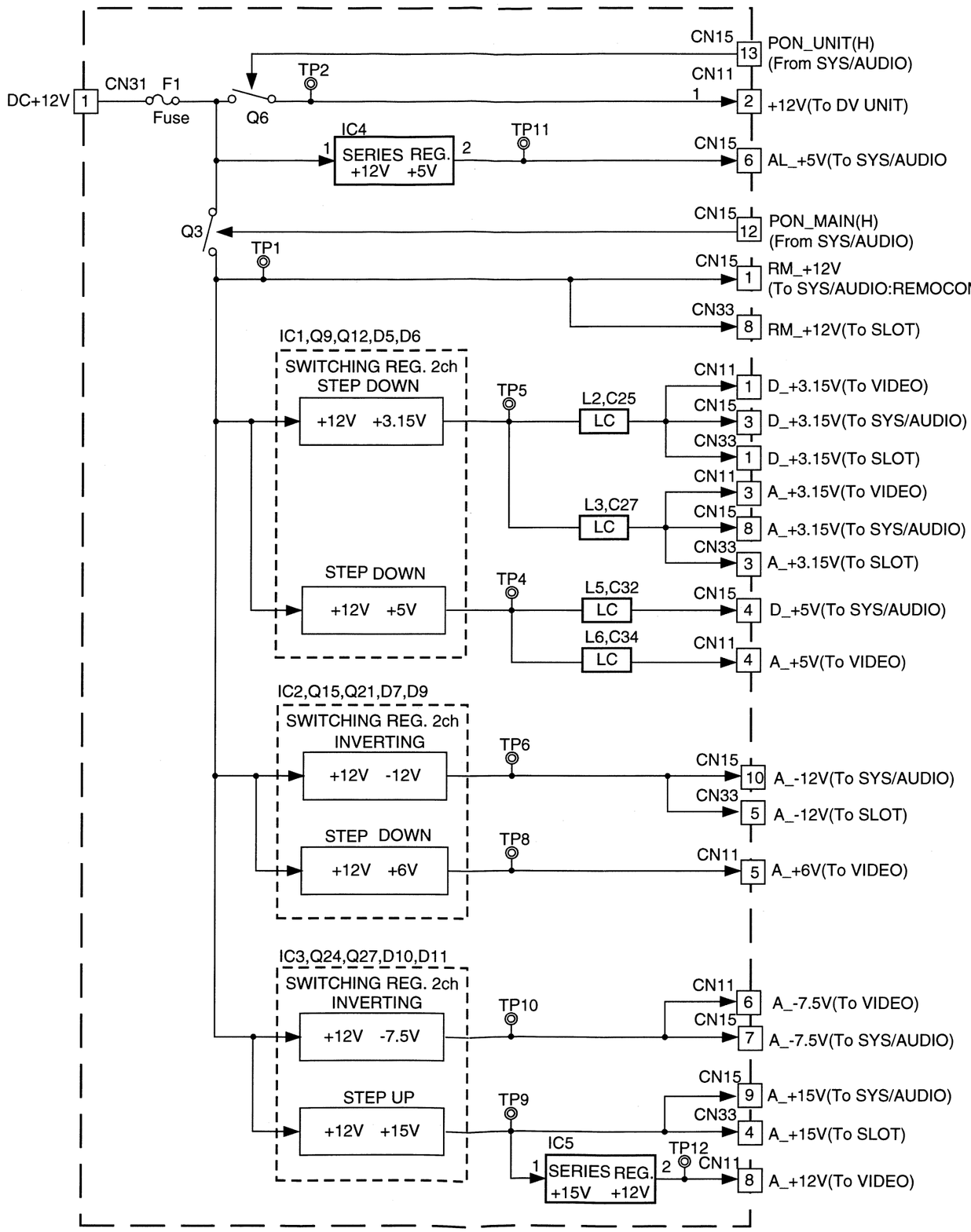
4.3 AUDIO BLOCK DIAGRAM



4-6

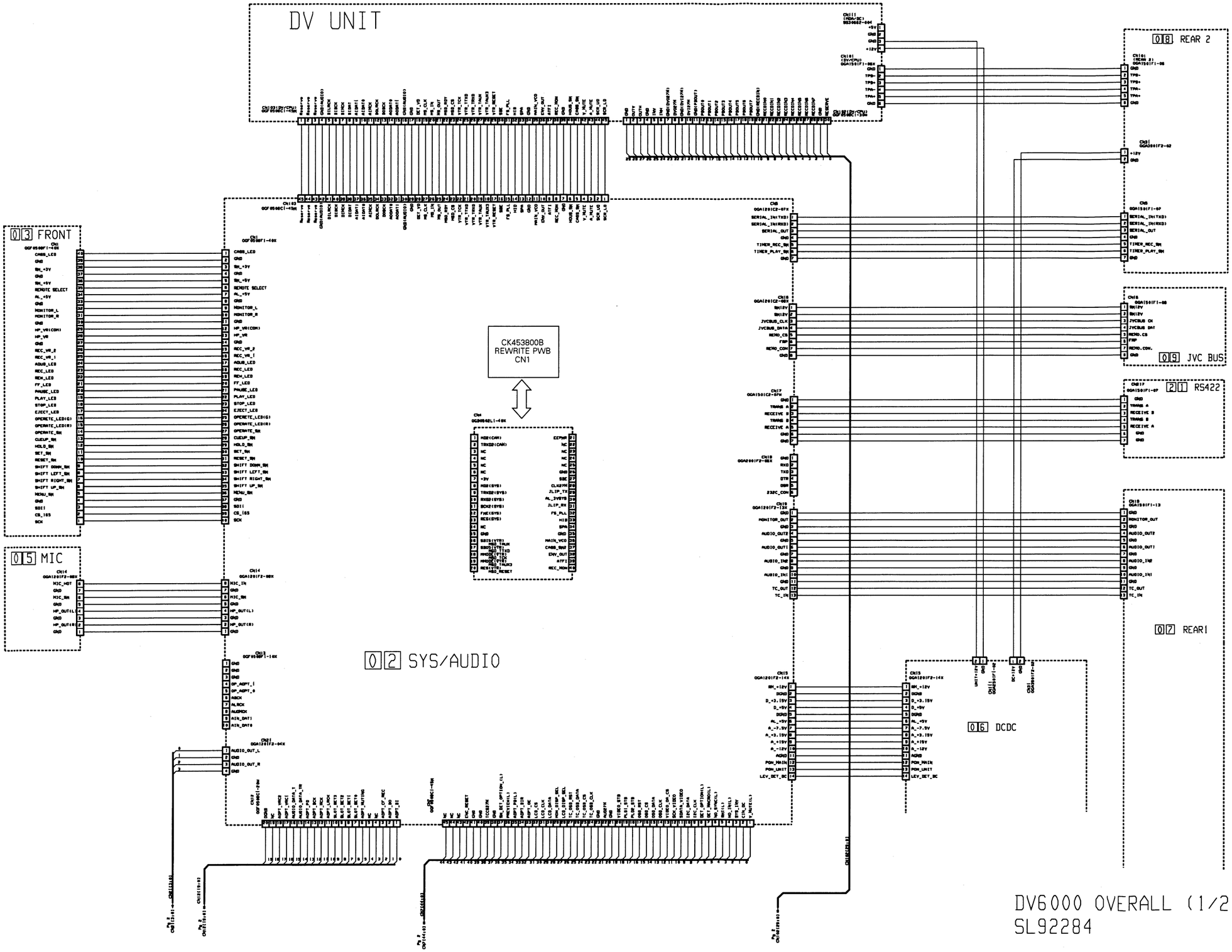

DVC UNIT
OPE KEY
VIDEO
AUDIO
REC VR
VIDEO
EVR
OSD
PS
IC313,314
Para Seri
IC315,316
Seri Para
SYSCON CPU
IC317
H8S/2239
16bit
FLASH:384k
RAM:32k
RST
SIO MS-BUS
PS
IC325
RTC
PS
IC323
EEP
SIO
INT/TIM
SIO
FRAME
IRQ
CS
IC311
RS422
IC312
RS232
IC
324
IC
302
TCCS
Factory use
YDC
Rewrite
firmware.
IC319
RESET
MSD CPU
IC302
MN103S33N
32bit
FLASH:512k
RAM:24k
IC1
P/R
F/C
MECHA
IC11
MDA
PS
IC301
EEP
RST
IC103
DV LSI
1394
PS
IC405
EVR
Serial
remocon
JVC
BUS
SIO
Network
Pack
OSD
TC IN
TC OUT
TIOxx
IRQ
IRQ
TC CPU
IC501
H8S/2238
16bit
PS
LCD
DRIVER
LCD
SYS/AUDIO

4.5 DC-DC CONVERTER BLOCK DIAGRAM

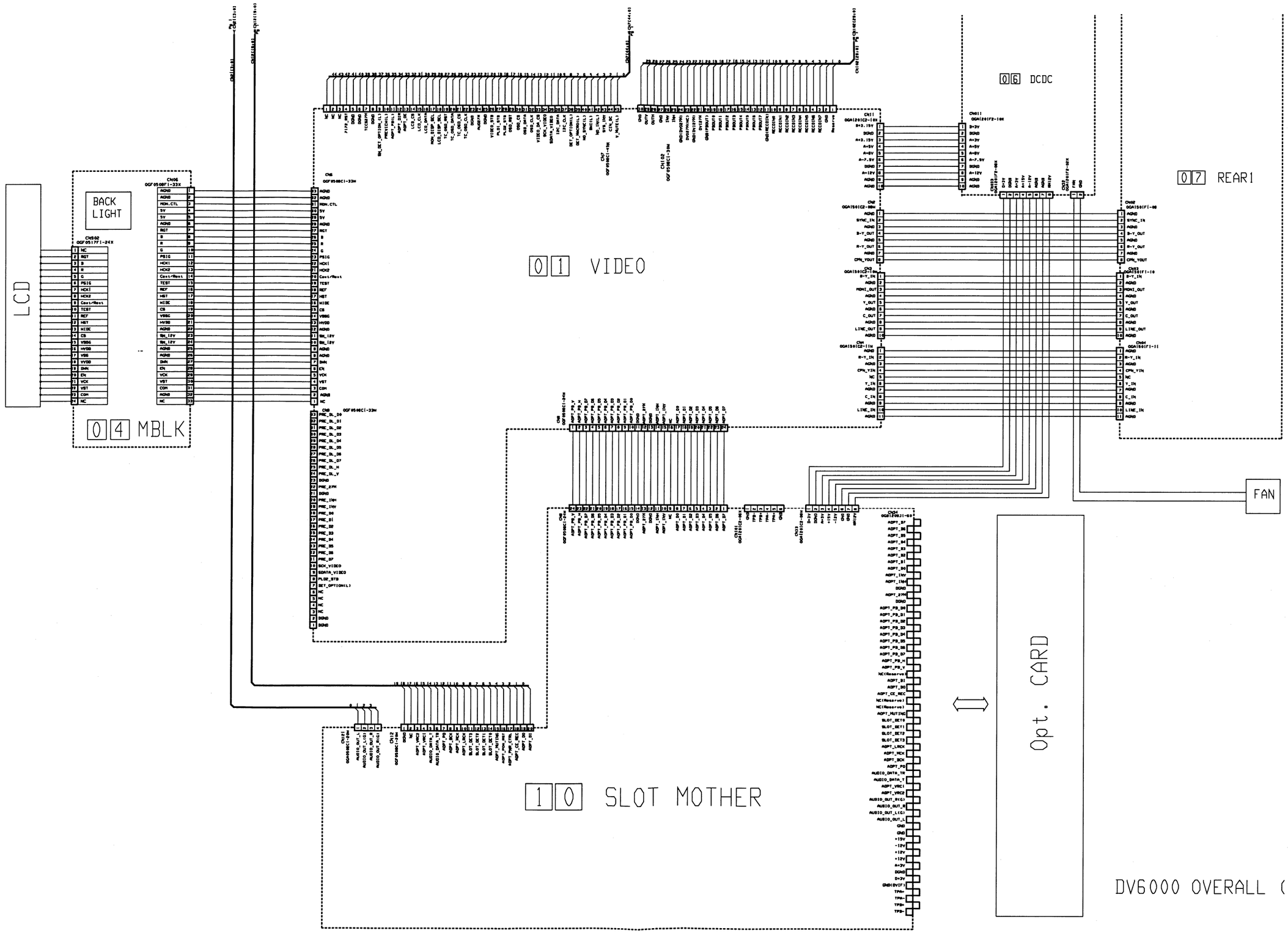


4-8

4.6 OVERALL WIRING DIAGRAM (1/2)

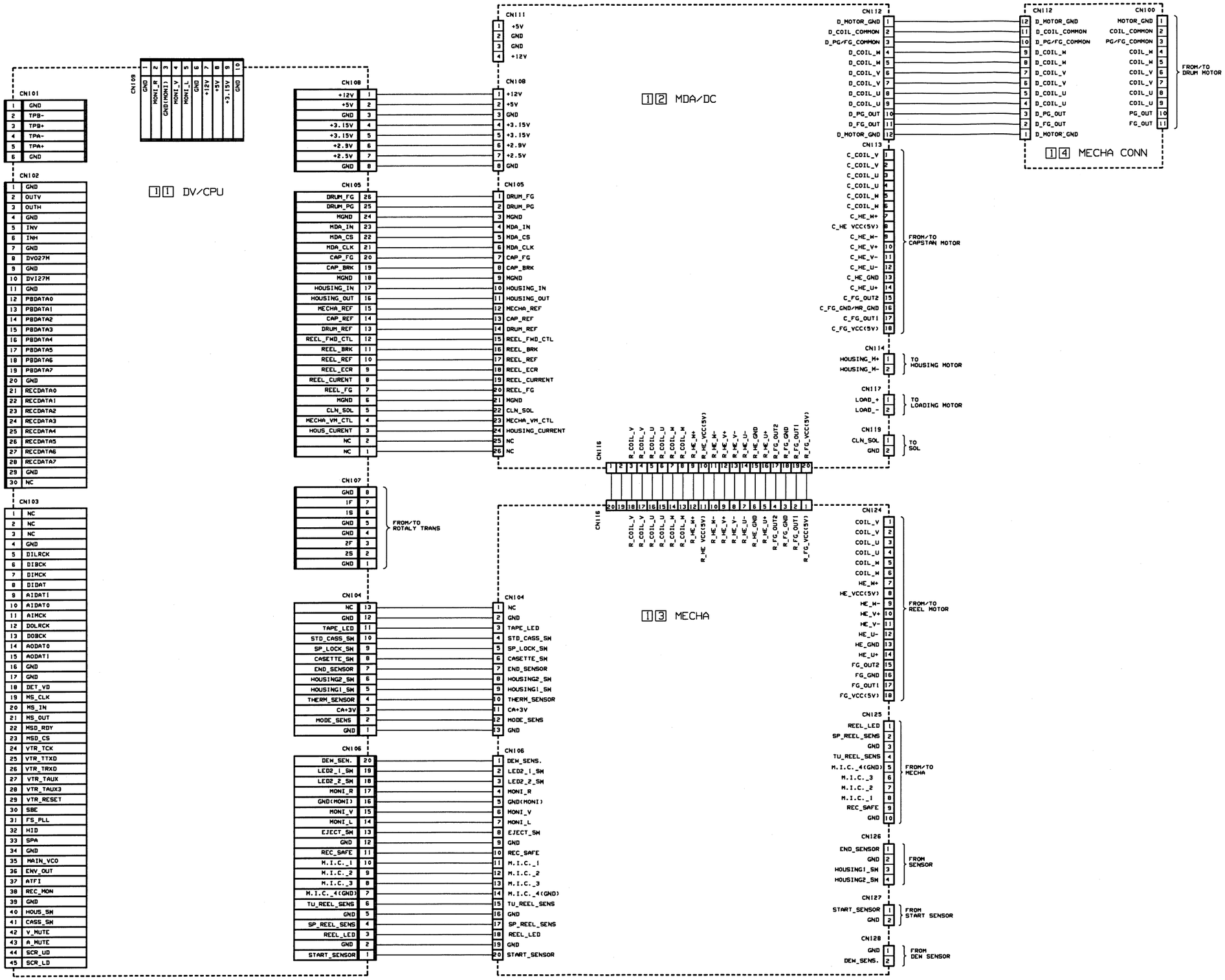


– OVERALL WIRING DIAGRAM (2/2) –



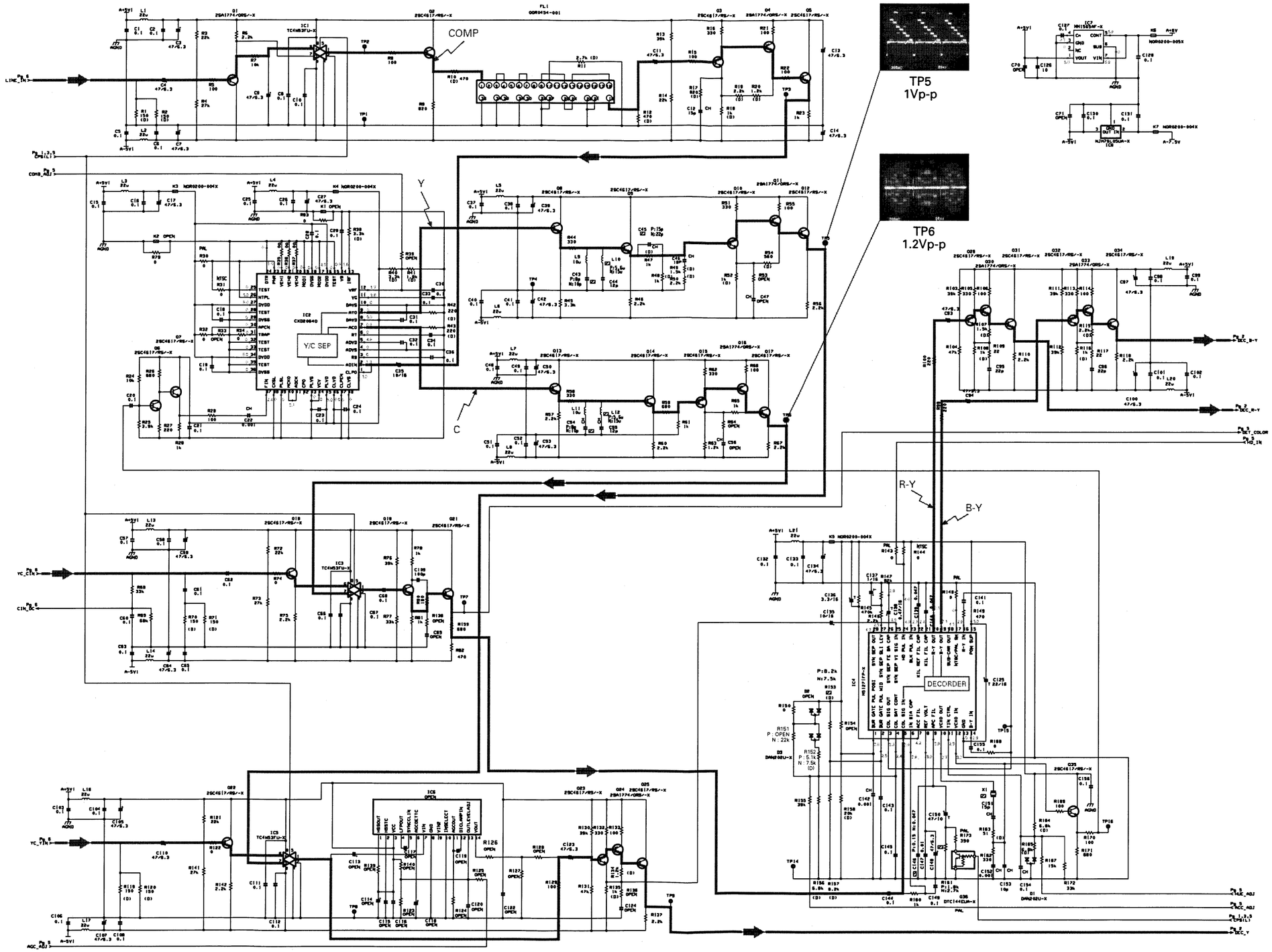
DV6000 OVERALL (2/2)

4.7 DV UNIT OVERALL WIRING DIAGRAM



4-11

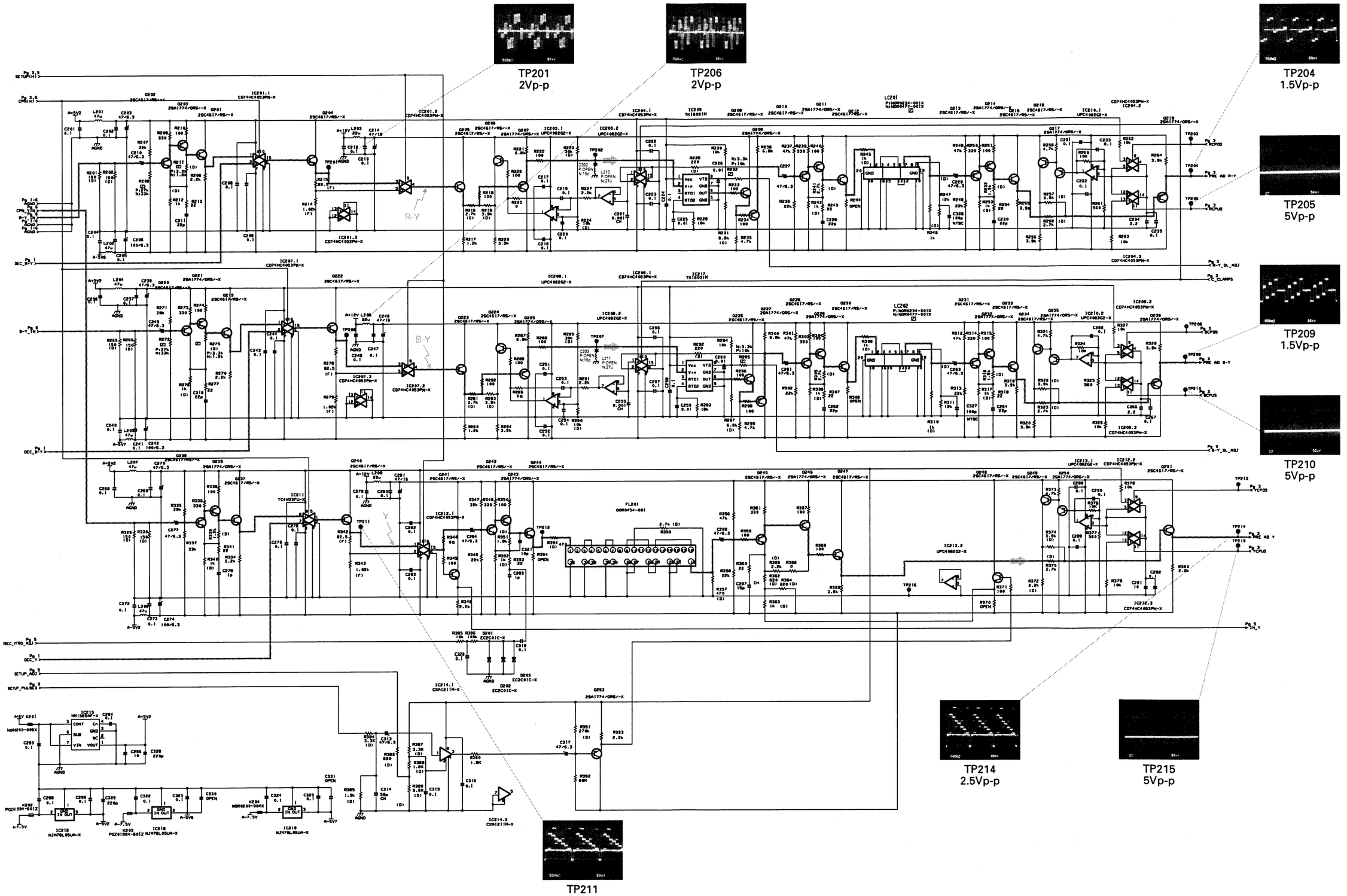
4.8 VIDEO BOARD SCHEMATIC DIAGRAM 01 (1/6)



SL91268-1

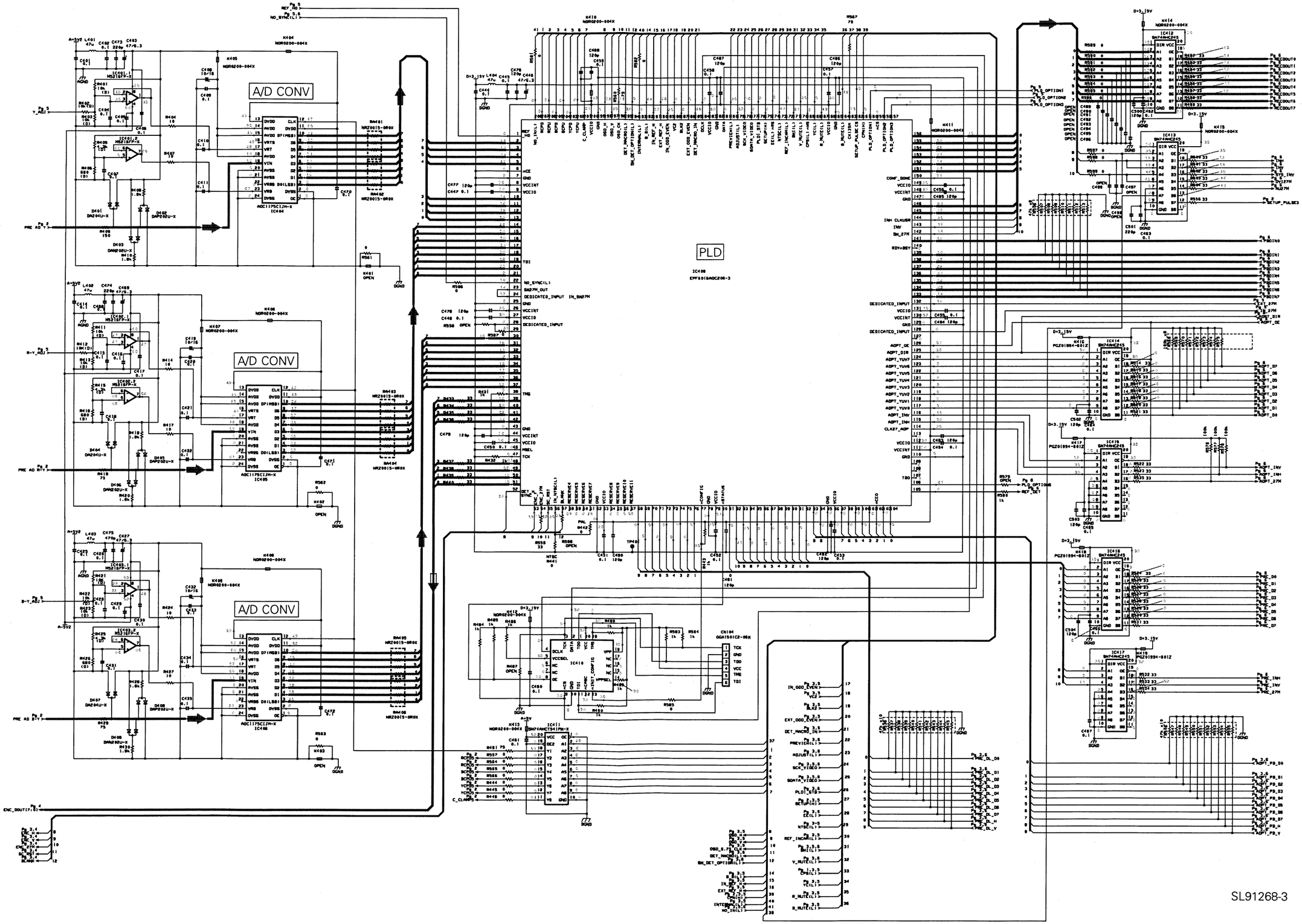
4-12

– VIDEO BOARD SCHEMATIC DIAGRAM 0 1 (2/6) –

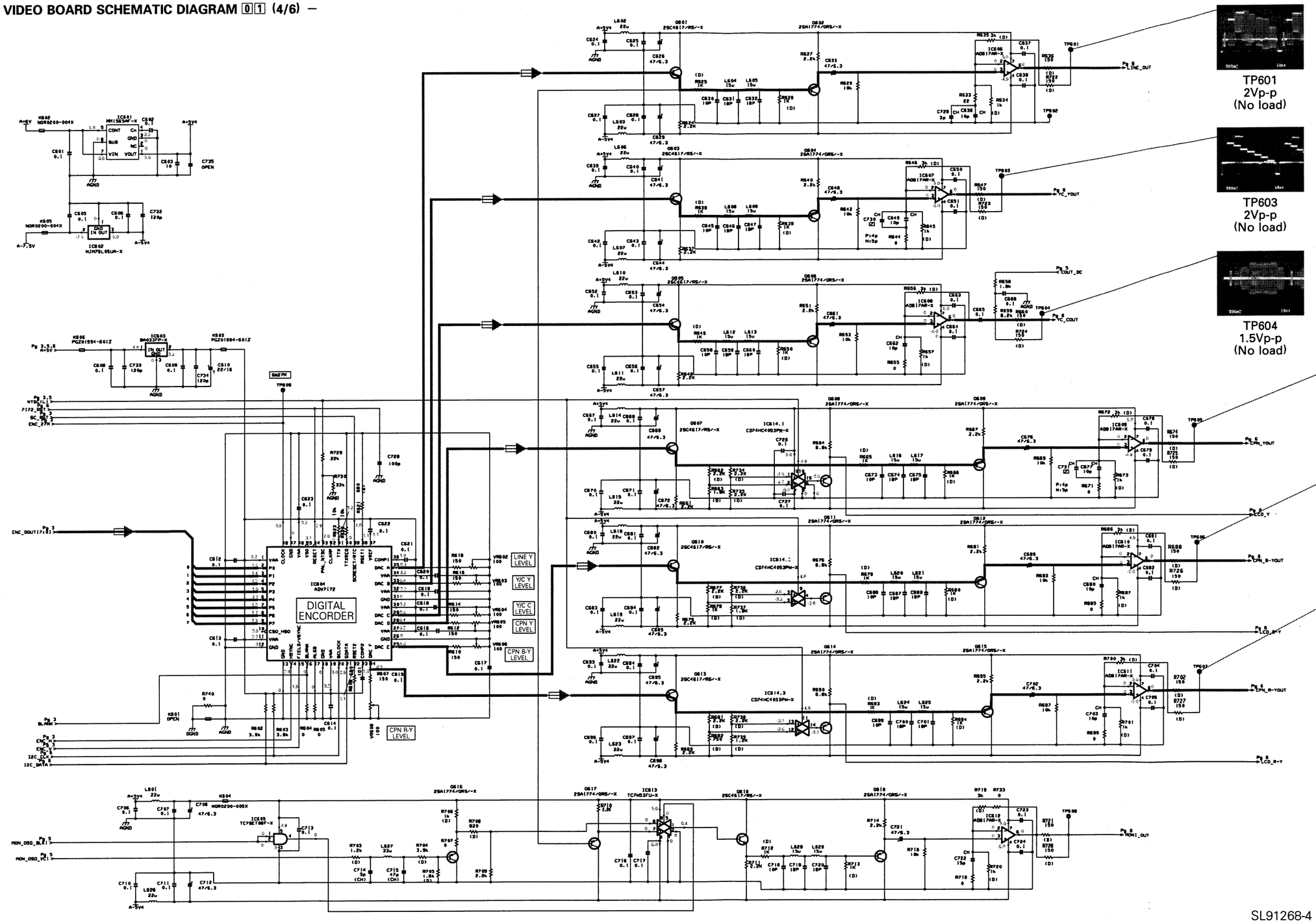


SL91268-2

– VIDEO BOARD SCHEMATIC DIAGRAM 01 (3/6) –



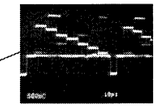
– VIDEO BOARD SCHEMATIC DIAGRAM 01 (4/6) –



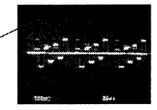
TP601
2Vp-p
(No load)

TP603
2Vp-p
(No load)

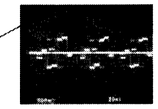
TP604
1.5Vp-p
(No load)



TP605
2Vp-p



TP606
1.2Vp-p

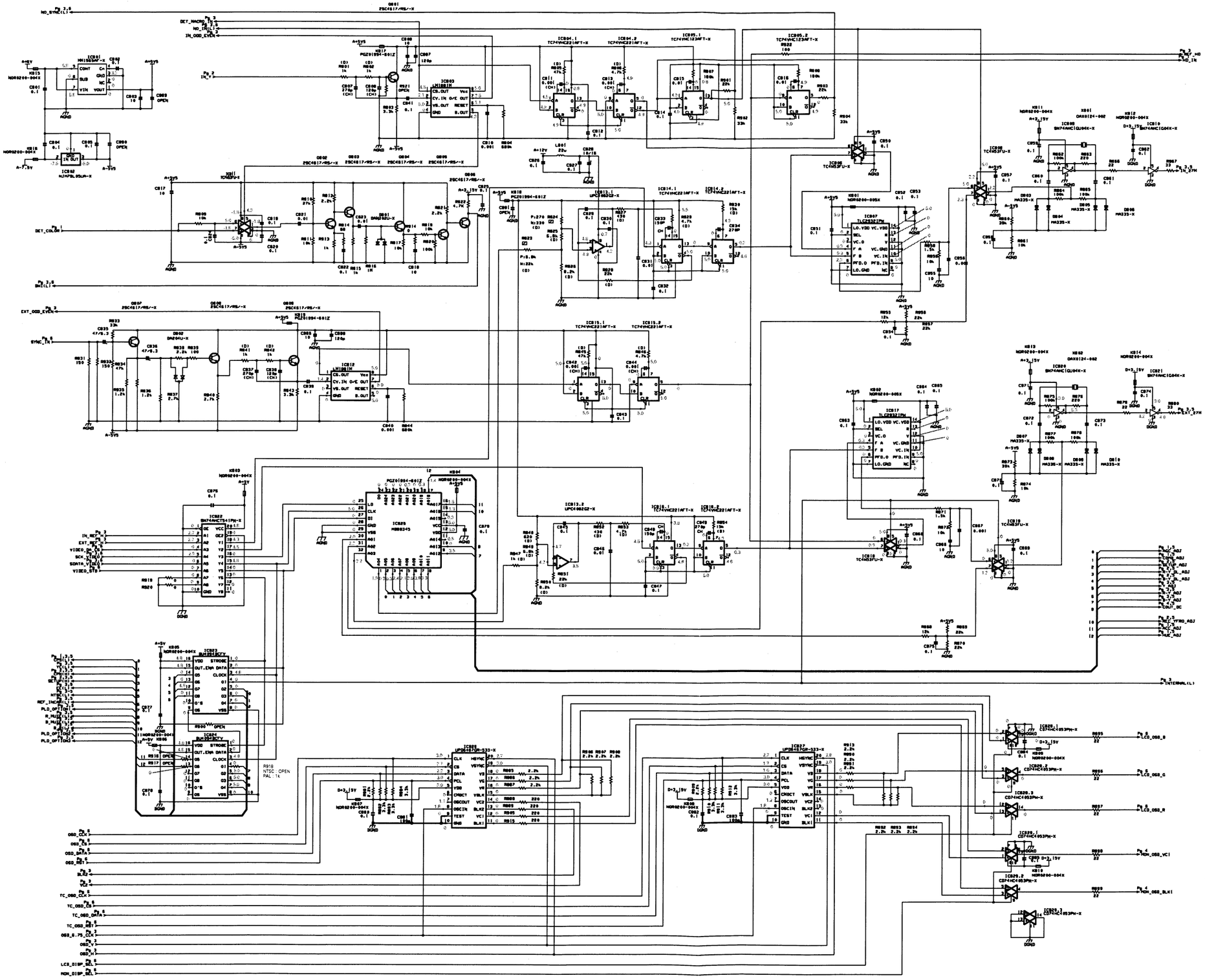


TP607
1.2Vp-p

SL91268-4

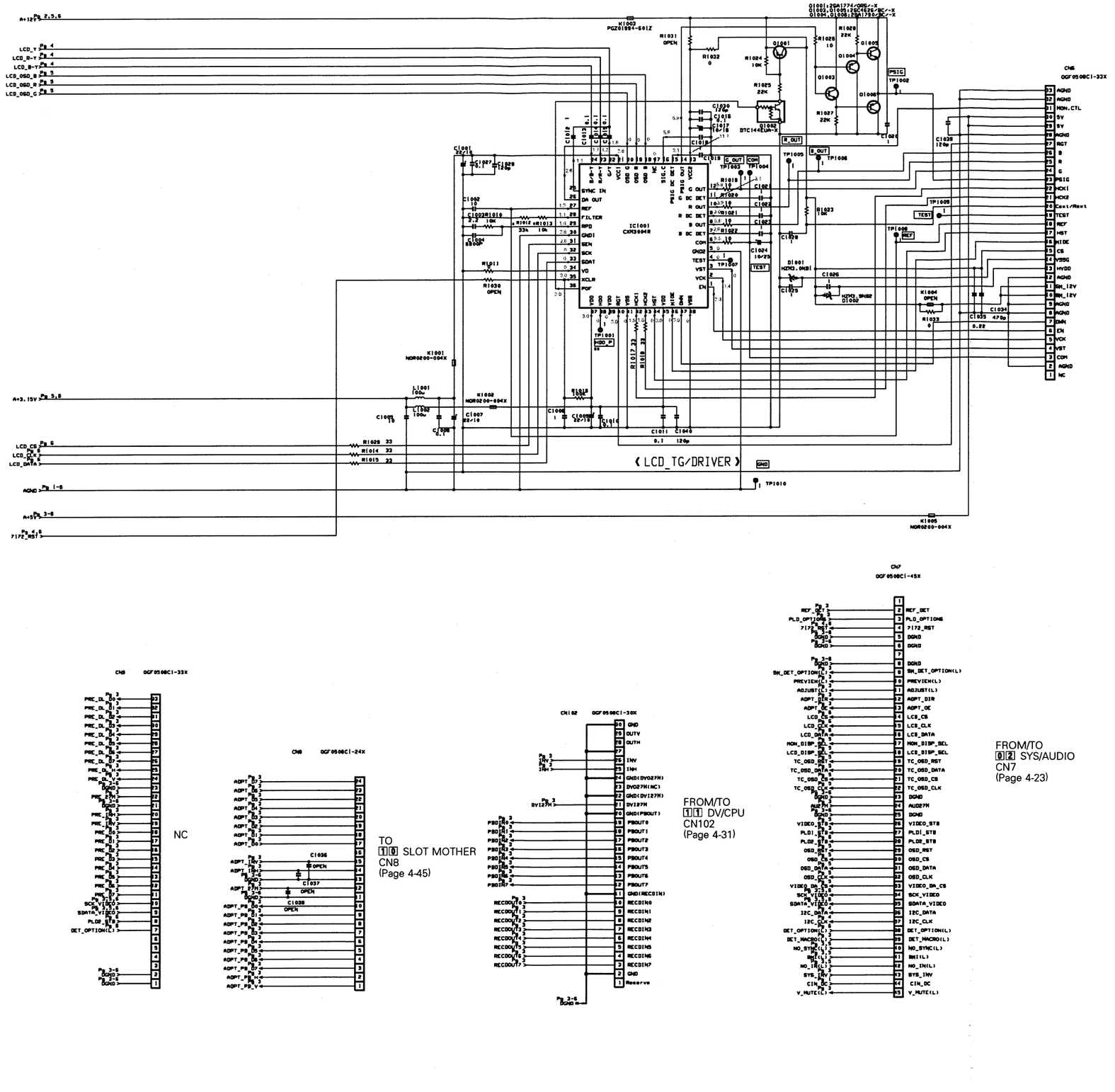
4-15

— VIDEO BOARD SCHEMATIC DIAGRAM 01 (5/6) —



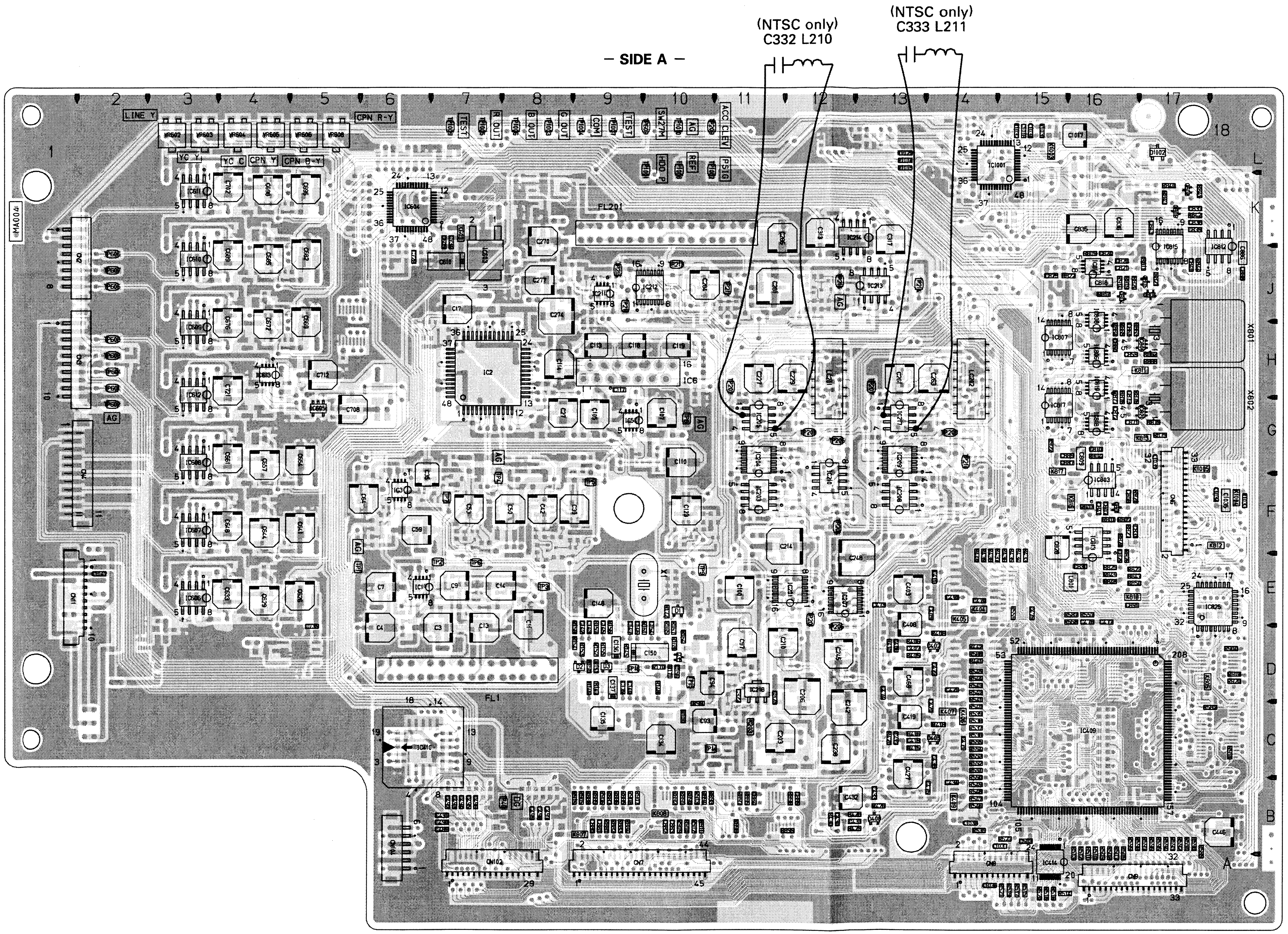
SL91268-5

– VIDEO BOARD SCHEMATIC DIAGRAM 01 (6/6) –



SL91268-6

4.9 VIDEO CIRCUIT BOARD



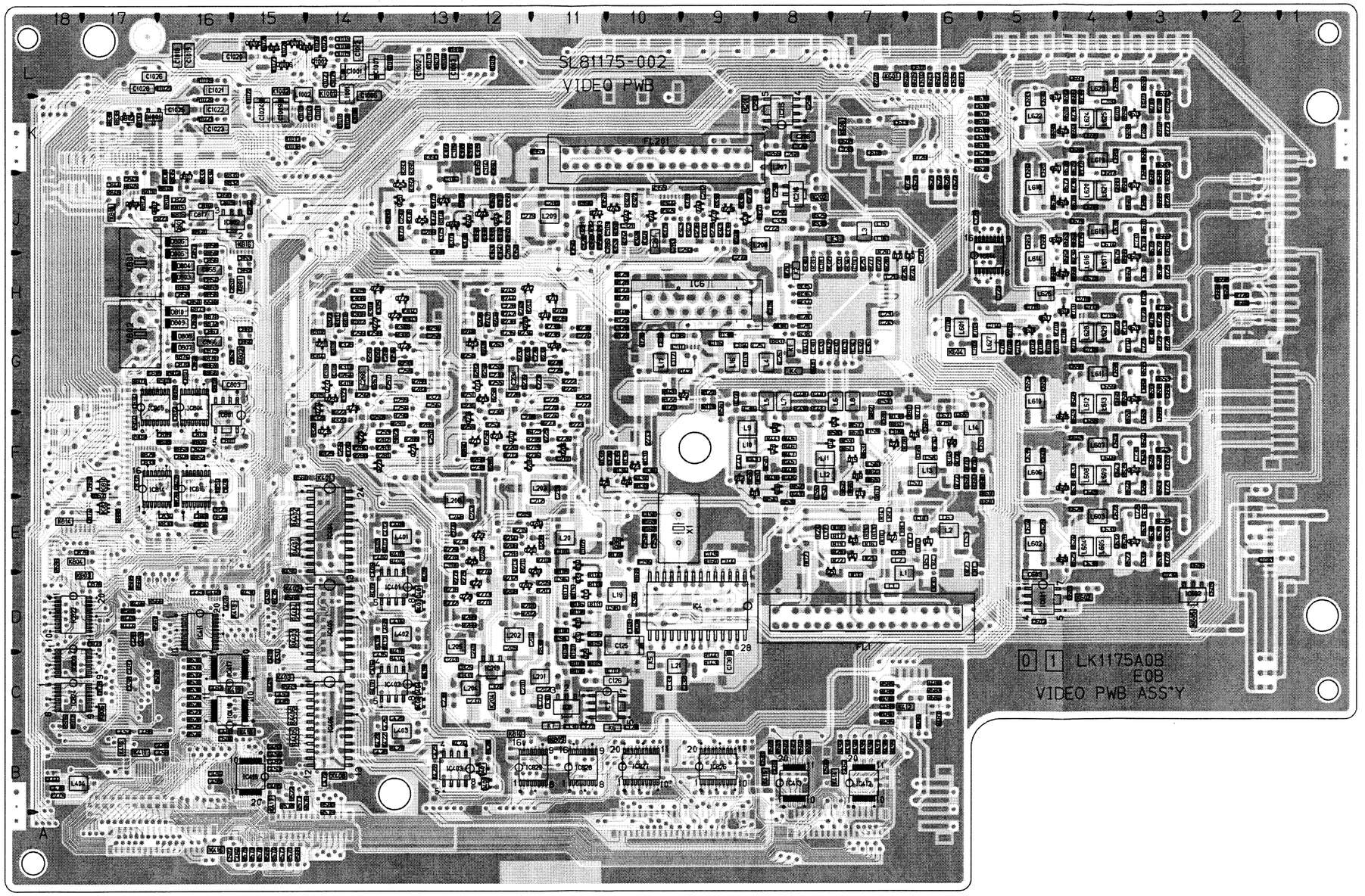
● ADDRESS TABLE OF BOARD PARTS

Each address may have an address error by one interval.

A-1C: Side – X axis – Y axis

IC1	A-6E	Q213	B-12G	R27	B-7H	R201	B-11D	R339	B-9J	R513	A-16A	R660	B-2H
IC2	A-7H	Q214	B-12G	R28	B-7H	R202	B-11D	R340	B-9J	R514	A-15A	R661	B-4J
IC3	A-6F	Q215	B-12G	R29	B-7H	R206	B-12E	R341	B-9J	R515	A-15A	R662	B-4H
IC4	B-9D	Q216	B-12F	R30	B-8H	R207	B-11D	R342	B-9J	R516	A-15A	R663	B-4J
IC5	A-9G	Q217	B-12F	R31	B-8H	R208	B-12D	R343	B-9J	R517	A-15A	R664	B-5H
IC6	A-9H	Q218	B-12F	R32	B-7H	R209	B-11D	R344	B-10J	R518	A-15A	R665	B-4H
IC7	B-10C	Q219	B-12E	R33	B-7H	R210	B-11E	R345	B-10J	R519	A-15A	R666	B-4H
IC8	B-11C	Q220	B-12D	R34	B-7H	R211	B-12E	R346	B-10J	R520	A-15A	R667	B-4H
IC201	A-12E	Q221	B-12D	R35	B-8H	R212	B-12D	R347	B-10J	R521	A-14A	R669	B-3J
IC203	A-11F	Q222	B-12E	R36	B-8H	R213	B-12E	R348	B-10J	R522	B-15B	R671	B-3J
IC204	A-11G	Q223	B-13F	R37	B-8H	R214	B-12E	R349	B-10J	R523	A-15B	R672	B-3H
IC205	A-11G	Q224	B-13F	R38	B-8G	R215	B-12E	R350	B-10J	R524	B-16B	R673	B-3H
IC207	A-12E	Q225	B-14F	R39	B-8H	R216	B-11F	R351	B-10J	R525	B-16C	R674	B-3H
IC208	A-13F	Q226	B-13G	R40	B-8G	R217	B-12F	R352	B-10J	R526	B-16C	R675	B-4J
IC209	A-13G	Q227	B-14H	R41	B-8G	R218	B-11F	R353	B-10J	R527	B-16C	R676	B-5J
IC210	A-12F	Q228	B-13H	R42	B-7G	R219	B-11F	R354	B-11J	R528	B-16C	R677	B-4J
IC211	A-9J	Q229	B-13H	R43	B-7G	R220	B-12F	R355	B-10J	R529	B-16C	R678	B-4J
IC212	A-10J	Q230	B-13H	R44	B-8F	R221	B-11G	R356	B-12J	R530	B-16C	R679	B-4J
IC213	A-13J	Q231	B-14G	R45	B-8F	R222	B-11G	R357	B-11K	R531	B-16C	R680	B-4J
IC214	A-12K	Q232	B-14G	R46	B-8F	R223	B-11F	R358	B-12H	R532	B-16C	R681	B-4J
IC215	B-8K	Q233	B-14G	R47	B-8F	R224	B-11F	R359	B-12J	R533	B-16C	R683	B-3K
IC216	B-8J	Q234	B-14G	R48	B-8F	R225	B-11F	R360	B-12J	R534	B-16C	R685	B-3K
IC217	A-13G	Q235	B-14F	R49	B-8F	R226	B-11F	R361	B-12J	R535	A-14B	R686	B-3J
IC218	A-11D	Q236	B-14G	R50	B-8F	R227	B-11F	R362	B-12J	R536	A-14C	R687	B-3J
IC219	B-12C	Q237	B-9J	R51	B-8F	R228	B-12G	R363	B-12H	R537	A-14C	R688	B-3J
IC401	B-13D	Q238	B-9J	R52	B-8F	R229	B-11G	R364	B-12H	R538	A-14C	R689	B-4K
IC402	B-13C	Q239	B-9J	R53	B-8E	R230	B-11G	R365	B-12J	R539	A-14C	R690	B-5K
IC403	B-12B	Q240	B-9J	R54	B-8E	R231	B-11G	R366	B-12J	R540	A-14C	R691	B-4K
IC404	B-14E	Q241	B-10J	R55	B-9F	R232	B-12G	R367	B-12J	R541	A-14D	R692	B-4K
IC405	B-14D	Q242	B-10J	R56	B-9F	R233	B-11G	R368	B-12J	R542	A-14D	R693	B-4K
IC406	B-14C	Q243	B-10J	R57	B-7F	R234	B-12G	R369	B-13H	R543	A-14D	R694	B-4K
IC409	A-16C	Q244	B-11J	R58	B-7F	R235	B-12G	R370	B-12J	R544	A-14D	R695	B-4K
IC410	A-6C	Q245	B-12J	R59	B-7F	R236	B-11G	R371	B-13J	R545	A-14D	R697	B-3K
IC411	B-16D	Q246	B-12J	R60	B-7F	R237	B-11H	R372	B-13J	R546	A-14B	R699	B-3L
IC412	B-7B	Q247	B-12J	R61	B-7F	R238	B-12H	R373	B-13J	R547	A-14B	R700	B-3K
IC413	B-8B	Q248	B-12J	R62	B-7E	R239	B-11H	R374	B-13J	R548	A-14B	R701	B-3K
IC414	A-15A	Q249	B-13J	R63	B-7F	R240	B-11H	R375	B-13J	R549	A-14B	R702	B-3K
IC415	B-15B	Q250	B-13J	R64	B-7F	R241	B-11H	R376	B-13J	R550	A-14B	R703	B-6G
IC416	B-15C	Q251	B-13J	R65	B-7F	R242	B-12H	R377	B-13J	R551	A-14C	R704	B-5G
IC417	B-15C	Q253	B-13J	R66	B-7E	R243	B-12H	R378	B-9J	R552	A-14C	R705	B-5G
IC601	B-5D	Q601	B-4E	R67	B-7E	R244	B-12H	R379	B-10J	R553	A-14C	R706	B-5G
IC602	B-3D	Q602	B-3E	R68	B-5F	R245	B-12H	R380	B-13J	R554	A-14C	R707	B-5G
IC603	A-7J	Q603	B-4E	R69	B-5E	R246	B-12H	R384	B-12J	R555	A-14C	R708	B-5G
IC604	A-6K	Q604	B-3F	R70	B-6F	R247	B-12H	R385	B-12J	R556	B-8B	R709	B-4G
IC605	A-5G	Q605	B-4F	R71	B-6F	R248	B-12G	R386	B-12K	R557	A-16E	R710	B-4G
IC606	A-3E	Q606	B-3G	R72	B-6F	R249	B-12G	R387	B-13K	R558	A-15E	R711	B-4H
IC607	A-3F	Q607	B-4H	R73	B-6F	R250	B-12G	R388	B-12K	R559	A-15E	R712	B-4G
IC608	A-3G	Q608	B-4J	R74	B-6F	R251	B-12G	R389	B-12K	R560	B-16C	R713	B-4G
IC609	A-3H	Q609	B-3H	R75	B-6F	R252	B-12G	R390	B-13K	R561	B-14F	R714	B-4G
IC610	A-3J	Q610	B-4J	R76	B-6F	R253	B-12G	R391	B-13J	R562	B-15D	R716	B-3H
IC611	A-3K	Q611	B-4J	R77	B-6F	R254	B-12G	R392	B-13J	R563	B-15C	R718	B-3H
IC612	A-3G	Q612	B-3J	R78	B-6F	R255	B-12G	R393	B-13J	R564	B-17D	R719	B-3H
IC613	A-4H	Q613	B-4K	R79	B-8H	R256	B-12F	R394	B-11J	R565	B-17D	R720	B-3H
IC614	B-5H	Q614	B-4K	R80	B-7F	R257	B-12F	R395	B-11J	R566	B-16D	R721	B-3G
IC801	B-15F	Q615	B-3K	R81	B-6F	R258	B-12G	R396	B-11J	R567	B-16D	R722	B-3E
IC802	B-15J	Q616	B-5G	R82	B-7F	R259	B-12F	R401	B-13E	R568	B-15A	R723	B-3E
IC803	A-16F	Q617	B-5H	R83	B-8G	R260	B-12F	R402	B-13E	R569	B-15A	R724	B-2H
IC804	B-16G	Q618	B-4H	R99	A-10C	R261	B-12F	R403	B-13E	R570	B-15A	R725	B-3H
IC805	B-16G	Q619	B-3G	R100	A-10C	R262	B-11G	R404	B-13E	R571	B-15A	R726	B-3J
IC806	A-16H	Q801	A-16F	R103	B-11C	R263	B-12G	R405	A-13D	R572	B-15A	R727	B-3K
IC807	A-15H	Q802	B-16J	R104	B-11C	R264	B-12F	R406	A-13D	R573	B-15A	R728	B-3G
IC808	A-16H	Q803	B-17J	R105	B-11D	R265	B-12D	R407	B-14D	R574	B-15A	R729	B-6K
IC809	A-16H	Q804	A-16J	R106	B-11D	R266	B-12D	R408	A-14D	R575	B-15A	R730	B-6J
IC810	B-17F	Q805	A-16J	R107	B-11C	R270	B-12E	R409	B-13D	R576	B-14B	R733	B-3G
IC811	A-16J	Q806	A-17J	R108	B-11C	R271	B-12D	R410	A-13D	R577	B-15B	R734	B-4H
IC812	A-18J	Q807	B-16J	R109	B-11C	R272	B-12D	R411	B-13C	R578	B-15B	R735	B-4J
IC813	A-16F	Q808	A-17K	R110	B-11D	R273	B-12D	R412	B-13D	R579	B-14A	R736	B-4J
IC814	B-16F	Q809	A-17K	R111	B-11D	R274	B-12D	R413	B-13D	R580	B-14B	R737	B-4J
IC815	A-17J	Q1001	B-14L	R112	B-11D	R275	B-12D	R414	B-13C	R581	B-17D	R738	B-4K
IC816	B-16F	Q1002	B-14L	R113	B-11D	R276	B-12D	R415	A-13C	R582	A-17C	R739	B-4K
IC817	A-15G	Q1003	B-15L	R114	B-11D	R277	B-12D	R416	A-13C	R583	B-6C	R740	B-7L
IC818	A-16G	Q1004	B-15L	R115	B-11D	R278	B-12E	R417	B-14C	R584	B-6C	R801	A-16F
IC819	A-16H	Q1005	B-15L	R116	B-11D	R279	B-12E	R418	A-14C	R585	B-7C	R802	A-16F
IC820	A-16G	Q1006	B-15L	R117	B-11D	R280	B-14F	R419	B-13C	R586	B-18E	R803	A-16F
IC821	B-17E			R118	B-11D	R281	B-13F	R420	A-13C	R587	A-15E	R804	A-16G
IC822	B-18D	D1	A-10E	R119	B-9G	R282	B-13F	R421	B-13B	R588	A-14D	R805	B-16G
IC823	B-18C	D2	A-9D	R120	B-9G	R283	B-13F	R422	B-13B	R589	A-17B	R806	B-16F
IC824	B-18C	D3	A-9D	R121	B-10G	R284	B-14F	R423	B-13B	R590	A-17B	R807	B-17G
IC825	A-17E	D201	B-11J	R122	B-10G	R285	B-13F	R424	B-12B	R591	A-17B	R808	B-16F
IC826	B-9B	D202	B-11J	R123	B-10G	R286	B-13F	R425	A-12B	R592	A-17B	R809	A-16J
IC827	B-10B	D203	B-11J	R124	B-10G	R287	B-13G	R426	A-12B	R593	A-17B	R810	B-17J
IC828	B-11B	D401	B-13D	R125	B-10H	R288	B-13G	R427	B-13B	R594	A-17B	R811	A-16J
IC829	B-11B	D402	A-14D	R126	B-10H	R289	B-13F	R428	A-13B	R595	A-17B	R812	B-17J
IC1001	A-14K	D403	B-13D	R127	B-10H	R290	B-13F	R429	B-12B	R596	A-17B	R813	B-16J
		D404	B-13C	R128	B-10H	R291	B-13F	R430	A-12B	R597	A-16B	R814	B-16J
Q1	B-6E	D405	A-14C	R129	B-10H	R292	B-14G	R431	B-15D	R598	A-16B	R815	B-16J
Q2	B-7E	D406	B-13C	R130	B-10F	R293	B-13G	R432	B-15D	R599	A-16B	R816	B-16J
Q3	B-7E	D407	B-12B	R131	B-10F	R294	B-13G	R433	A-15E	R602	B-6L	R817	A-16J
Q4	B-7E	D408	A-13B	R132	B-10F	R295	B-14G	R434	A-15E	R603	B-6L	R819	A-16J
Q5	B-7D	D409	B-12B	R133	B-10F	R296	B-13G	R435	A-15E	R604	B-6L	R820	A-16J
Q6	B-6H	D801	B-16J	R134	B-10F	R297	B-13G	R436	A-15E	R605	B-6L	R821	A-17J
Q7	B-7H	D802	B-17K	R135	B-10F	R298	B-14G	R437	A-14E	R606	B-6L	R822	A-15J
Q8	B-8F	D803	B-16H	R136	B-10F	R299	B-14G	R438	A-14E	R607	B-6L	R823	A-16E
Q9	B-8F	D804	B-16H	R137	B-11F	R300	B-13G	R439	A-14E	R610	B-5K	R824	A-16F
Q10	B-8E	D805	B-16H	R138	B-7F	R301	B-13H	R440	A-14E	R612	B-5K	R825	A-16E
Q11	B-8E	D806	B-16J	R139	B-9G	R302	B-14H	R441	A-14D	R614	B-5K	R826	B-16E
Q12	B-9F	D807	B-16G	R140	B-10H	R303	B-13H	R442	A-14D	R616	B-5K	R827	A-16F
Q13	B-7F	D808	B-16G	R141	B-10G	R304	B-13H	R443	B-15C	R618	B-5K	R828	A-16E
Q14	B-7F	D809	B-16H	R142	B-9G	R305	B-13H	R444	B-17D	R621	B-6J	R829	B-17F
Q15	B-7F	D810	B-16H	R143	B-9C	R306	B-14H	R445	B-17D	R622	B-6J	R830	B-16E
Q16	B-7F	D1001	B-16K	R144	B-9C	R307	B-14H	R446	B-17D	R623	B-6J	R831	B-15J
Q17	B-7E	D1002	A-17L	R145	A-9D	R308	B-14H	R484	B-7C	R624	B-4E	R832	B-15J
Q18	B-6F			R146	A-9D	R309	B-14H	R485	B-7C	R625	B-4E	R833	B-16J
Q19	B-6F	R1	B-6D	R147	A-9D	R310	B-14H	R486	B-6C	R626	B-4E	R834	B-16J
Q21	B-7F	R2	B-6D	R148	A-10D	R311	B-14H	R487	B-6C	R627	B-4E	R835	B-16J
Q22	B-9G	R3	B-6D	R149	B-10D	R312	B-14G	R488	B-6C	R629	B-3E	R836	B-16J
Q23	B-10F	R4	B-6E	R150	A-9D	R313	B-14G	R489	B-7C	R633	B-3E	R837	B-17K
Q24	B-10F	R5	B-6E	R151	A-9D	R314	B-14G	R490	B-7C	R634	B-3E	R838	B-17K
Q25	B-10F	R6	B-6E	R152	A-9D	R315	B-14G	R491	B-15D	R635	B-3E	R839	B-17K
Q29	B-11C	R7	B-6E	R153	A-9D	R316	B-14G	R492	B-7B	R636	B-3E	R840	A-17K
Q30	B-11D	R8	B-7E	R154	A-9D	R317	B-14G	R493	B-7B	R637	B-4F	R841	A-17K
Q31	B-11D	R9	B-7E	R155	A-9D	R318	B-14G	R494	B-7B	R638	B-4E	R842	A-17K
Q32	B-11D	R10	B-7E	R156	A-9D	R319	B-14G	R495	B-7B	R639	B-4F	R843	A-17K
Q33	B-11D	R11	B-7D	R157	A-9D	R320	B-14F	R496	B-7B	R640	B-4E	R844	A-17J
Q34	B-11E	R12	B-8E	R158	A-9D	R321	B-14F	R497	B-7B	R642	B-3F	R845	B-17J
Q35	A-10D	R13	B-7E	R159	B-7F	R322	B-14F	R498	B-7B	R644	B-3F	R846	B-17J
Q36	B-10E	R14	B-7E	R160	B-9E	R323	B-14G	R499	B-7B	R645	B-3F	R847	A-16E
Q201	B-11E	R15	B-7E	R161	A-9D	R324	B-14F	R500	B-8B	R646	B-3F	R848	A-16E
Q202	B-12D	R16	B-7E	R162	B-10E	R325	B-14F	R501	B-8B	R647	B-3E	R849	A-16E
Q203	B-11D	R17	B-7E	R163	B-10E	R326	B-14G	R502	B-8B	R648	B-4G	R850	A-16E
Q204	B-11E	R18	B-7E	R164	A-10D	R327	B-13G	R503	B-8B	R649	B-4F	R851	B-16F
Q205	B-11F	R19	B-7E	R165	A-10D	R328	B-14F	R504	B-8B	R650	B-4G	R852	B-16F
Q206	B-11F	R20	B-7E	R167	A-10D	R329	B-8J	R506	A-16A	R651	B-4F	R853	B-16F
Q207	B-12F	R21	B-7E	R168	B-10D	R330	B-8J	R507	A-16A	R653	B-3G	R854	B-16E
Q208	B-11G	R22	B-7E	R169	A-10D	R334	B-9J	R508	A-16A	R655	B-3G	R855	B-16H
Q209	B-12H	R23	B-8E	R170	A-10D	R335	B-8J	R509	A-16A	R656	B-3G	R856	B-16H
Q210	B-11H	R24	B-6H	R171	A-10D	R336	B-9J	R510	A-16A	R657	B-3G	R857	B-16H
Q211	B-11H	R25	B-7H	R172	A-10E	R337	B-8J	R511	A-16A	R658	B-2H	R858	B-16J
Q212	B-11H	R26	B-6H	R173	B-10E	R338	B-9J	R512	A-16A	R659	B-2H	R859	B-16H

— SIDE B —



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R862	A-17H	C30	B-8G	C229	A-12H	C459	B-17D	C689	A-4J	C886	A-16J
R863	A-16H	C31	B-7G	C230	B-12G	C460	B-7C	C690	B-3J	C887	A-15G
R864	A-16H	C32	B-7G	C231	B-12G	C461	B-15D	C691	B-3J	C888	A-18J
R865	A-16H	C33	B-8G	C232	B-12F	C462	B-7B	C692	B-3J	C889	A-15G
R866	A-17H	C34	B-7G	C233	B-12F	C463	B-8B	C693	B-5K	C890	B-16J
R867	B-17E	C35	A-6F	C234	B-12G	C464	B-15A	C694	B-5K	C891	A-16E
R868	B-16G	C36	B-7G	C235	B-12G	C465	B-15B	C695	A-5K	C1001	B-14L
R869	B-16G	C37	B-9G	C236	B-13C	C466	B-15B	C696	B-4L	C1002	B-13L
R870	B-16G	C38	B-9F	C237	B-12C	C467	B-16C	C697	B-4L	C1003	B-12L
R871	B-16H	C39	A-8F	C238	A-12C	C468	B-13D	C698	A-4K	C1004	B-13L
R872	B-16H	C40	B-8G	C240	B-12C	C469	A-13D	C699	B-4K	C1005	B-14K
R873	B-16H	C41	B-8F	C241	B-12C	C470	A-14C	C700	B-4K	C1006	B-13L
R874	B-16G	C42	A-8F	C242	A-12C	C471	A-14C	C701	B-4K	C1007	B-13L
R875	A-17G	C43	B-8F	C243	B-12E	C472	B-14B	C702	A-4K	C1008	B-14K
R876	A-16G	C44	B-9F	C244	B-12E	C473	A-13E	C703	B-3K	C1009	B-15K
R877	A-16G	C45	B-8F	C245	A-12D	C474	A-13D	C704	B-3K	C1010	B-14K
R878	A-16G	C46	B-8F	C246	B-12E	C475	A-13B	C705	B-3K	C1011	B-14K
R879	A-17G	C47	B-8E	C247	B-12E	C476	B-18B	C706	B-6H	C1012	B-14L
R880	B-17E	C48	B-8G	C248	A-12E	C477	A-16E	C707	B-6G	C1013	B-14L
R881	A-9B	C49	B-8F	C251	B-13F	C478	A-16E	C708	A-5G	C1014	B-14L
R882	A-9B	C50	A-8F	C252	B-13F	C479	A-15E	C710	B-4H	C1015	B-14L
R883	A-9B	C51	B-7G	C253	B-13F	C480	B-15C	C711	B-5H	C1016	A-15L
R884	A-9B	C52	B-7G	C254	B-13G	C481	B-15C	C712	A-5H	C1017	A-16L
R885	A-9B	C53	A-7F	C255	B-13G	C482	B-15B	C713	B-5G	C1018	B-16L
R886	A-9B	C54	B-8E	C256	B-13G	C483	B-15B	C714	B-5H	C1019	B-16L
R887	A-9B	C55	B-8E	C257	B-13G	C484	B-16B	C715	B-5G	C1020	B-15L
R888	A-9B	C56	B-7F	C258	B-13G	C485	B-16B	C716	B-4G	C1021	B-16K
R889	A-9B	C57	B-6F	C259	B-13G	C486	B-17B	C717	B-4H	C1022	B-16K
R890	A-10B	C58	B-6F	C260	B-13G	C487	B-17C	C718	B-4G	C1023	B-16K
R891	A-10B	C59	A-6F	C261	A-13H	C488	B-17D	C719	B-4H	C1024	B-15K
R892	A-10B	C60	B-5E	C262	B-14H	C489	A-7B	C720	B-4G	C1025	B-16K
R893	A-10B	C61	B-6F	C263	A-14H	C490	A-7B	C721	A-4H	C1026	B-16L
R894	A-10B	C62	B-6F	C264	B-14G	C491	A-7B	C722	B-3H	C1027	B-14L
R895	A-11B	C63	B-5F	C265	B-14F	C492	A-7B	C723	B-3G	C1028	B-17K
R896	A-11B	C64	A-6F	C266	B-14G	C493	A-7B	C724	B-3H	C1029	B-14L
R897	A-11B	C65	B-6F	C267	B-14G	C494	A-7B	C726	B-6J	C1030	A-15L
R898	A-12B	C66	B-6F	C268	B-8K	C495	A-7B	C727	B-5H	C1034	A-17F
R899	A-11B	C67	B-6F	C269	B-8K	C496	A-7B	C728	A-6J	C1035	A-18F
R900	A-18D	C68	B-6F	C270	A-8J	C497	A-8B	C729	B-3E	C1036	A-14A
R901	B-16G	C69	B-7F	C272	B-8J	C498	A-8B	C730	B-3F	C1037	A-14B
R902	B-16G	C70	B-10C	C273	B-9H	C499	A-8B	C731	B-3J	C1038	A-14B
R903	B-17F	C71	B-11C	C274	A-8J	C500	B-8B	C732	B-3D	C1039	A-17G
R904	B-17F	C93	A-10C	C275	B-9J	C501	B-8B	C733	B-7K	C1040	B-14K
R905	A-9B	C94	A-10D	C276	B-9J	C502	B-15A	C734	A-7J	C1041	B-2E
R906	A-9B	C95	B-11D	C277	A-8J	C503	A-15B	C735	A-5D	C1042	A-2E
R907	A-9B	C96	B-11D	C278	B-9J	C504	B-15B	C801	B-15F		
R908	A-9B	C97	A-11D	C279	B-11J	C601	B-4D	C802	B-16G	X1	A-9E
R909	A-10B	C98	B-10D	C280	B-11J	C602	B-5D	C803	B-15G	X801	A-17H
R910	A-10B	C99	B-10D	C281	A-11J	C603	B-5D	C804	B-15J	X802	A-17H
R911	A-10B	C100	A-11E	C282	B-9J	C605	B-2D	C805	B-15J		
R912	A-10B	C101	B-11E	C283	B-10J	C606	B-3E	C807	A-16F	FL1	A-6D
R913	A-10B	C102	B-11E	C284	A-10J	C608	B-7K	C808	A-16F	FL201	A-9K
R914	A-16J	C103	B-9G	C285	B-10J	C609	A-7J	C809	A-16G		
R915	A-9B	C104	B-9G	C286	A-11K	C610	A-7J	C810	A-16G	TP1	A-5E
R916	B-18C	C105	A-9G	C287	B-12H	C612	B-7K	C811	B-16G	TP2	A-7E
R917	B-18C	C106	B-10G	C288	B-13J	C613	B-7K	C812	B-16F	TP3	A-8E
R918	B-18C	C107	A-10G	C289	B-13J	C614	B-6L	C813	B-16F	TP4	A-7F
R919	A-18D	C108	B-9G	C290	B-13J	C615	B-6L	C814	B-17G	TP5	A-9F
R920	A-18D	C109	B-7F	C291	B-10J	C616	B-5K	C815	B-16G	TP6	A-7E
R921	A-16F	C110	A-10G	C292	B-9H	C617	B-6L	C816	B-16F	TP7	A-7F
R922	A-15G	C111	B-9G	C293	B-8K	C618	B-5K	C817	B-16J	TP8	A-10G
R1010	B-12L	C112	B-10G	C294	B-8K	C619	B-5K	C818	A-16J	TP9	A-10E
R1011	B-12L	C113	A-9H	C296	B-8K	C620	B-5K	C819	B-16J	TP14	A-10C
R1012	B-13L	C114	A-8H	C298	B-8J	C621	B-5J	C820	A-16J	TP15	A-10D
R1013	B-13L	C115	B-8H	C299	B-8J	C622	B-6J	C821	A-16J	TP16	A-9D
R1014	A-13L	C116	B-9G	C313	A-12K	C623	B-6J	C822	B-16J	TP201	A-12E
R1015	A-13K	C117	A-9H	C314	B-12J	C624	B-5E	C823	B-16J	TP202	A-11H
R1016	B-14K	C118	A-9H	C315	B-12K	C625	B-5E	C824	A-16J	TP203	A-12G
R1017	B-15K	C119	A-10H	C316	B-13J	C626	A-5E	C825	A-15J	TP204	A-12F
R1018	B-15K	C120	B-10G	C317	A-13K	C627	B-4E	C826	B-16E	TP205	A-12G
R1019	B-16L	C122	B-10F	C318	B-12E	C628	B-4E	C827	B-16E	TP206	A-12D
R1020	B-16K	C123	A-10F	C319	B-10J	C629	A-4E	C828	A-15E	TP207	A-13H
R1021	B-16K	C124	B-10F	C320	B-11J	C630	B-4E	C829	A-16E	TP208	A-14G
R1022	B-15K	C125	B-10D	C321	B-10J	C631	B-4E	C830	A-16E	TP209	A-10L
R1023	B-16K	C126	B-10C	C322	A-11D	C632	B-4E	C831	A-16F	TP210	A-14G
R1024	B-14L	C127	B-11C	C323	A-11D	C633	A-4E	C832	B-17F	TP211	A-9J
R1025	B-14L	C128	B-10C	C324	B-12C	C636	B-3E	C833	B-17F	TP212	A-11J
R1026	B-15L	C130	B-11C	C325	B-12C	C637	B-3E	C834	B-16E	TP213	A-10J
R1027	B-15L	C131	B-12C	C326	B-12H	C638	B-3E	C835	A-16K	TP214	A-13J
R1028	B-15L	C132	B-9C	C327	B-14H	C639	B-5F	C836	A-16K	TP215	A-9J
R1029	A-13L	C133	B-10C	C328	B-8K	C640	B-5F	C837	A-17K	TP216	A-12J
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R1031	A-15L	C135	A-9C	C330	B-11D	C642	B-4F	C839	A-17K	TP601	A-2H
R1032	A-15L	C136	A-9D	C331	B-12C	C643	B-4F	C840	A-17J	TP602	A-2G
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		C138	B-9C	C402	B-13E	C645	B-4E	C842	B-17J	TP604	A-2H
RA401	B-15E	C139	A-9D	C403	A-13E	C646	B-4F	C843	A-17K	TP605	A-2J
RA402	B-15E	C140	A-9D	C404	B-13E	C647	B-4F	C844	A-17J	TP606	A-2J
RA403	B-15D	C141	B-10D	C405	B-14D	C648	A-4F	C845	B-15F	TP607	A-2J
RA404	B-15D	C142	A-9D	C406	A-13D	C649	B-3F	C846	B-16F	TP608	A-2H
RA405	B-15B	C143	A-9D	C407	A-13D	C650	B-3E	C847	B-16F	TP609	A-9L
RA406	B-15C	C144	B-9E	C408	A-13D	C651	B-3F	C848	B-16F	TP1001	A-9K
		C145	A-9D	C409	A-14E	C652	B-5G	C849	B-16E	TP1002	A-10K
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VR603	A-3L	C147	A-9D	C411	A-14E	C654	A-5G	C851	B-15H	TP1004	A-9L
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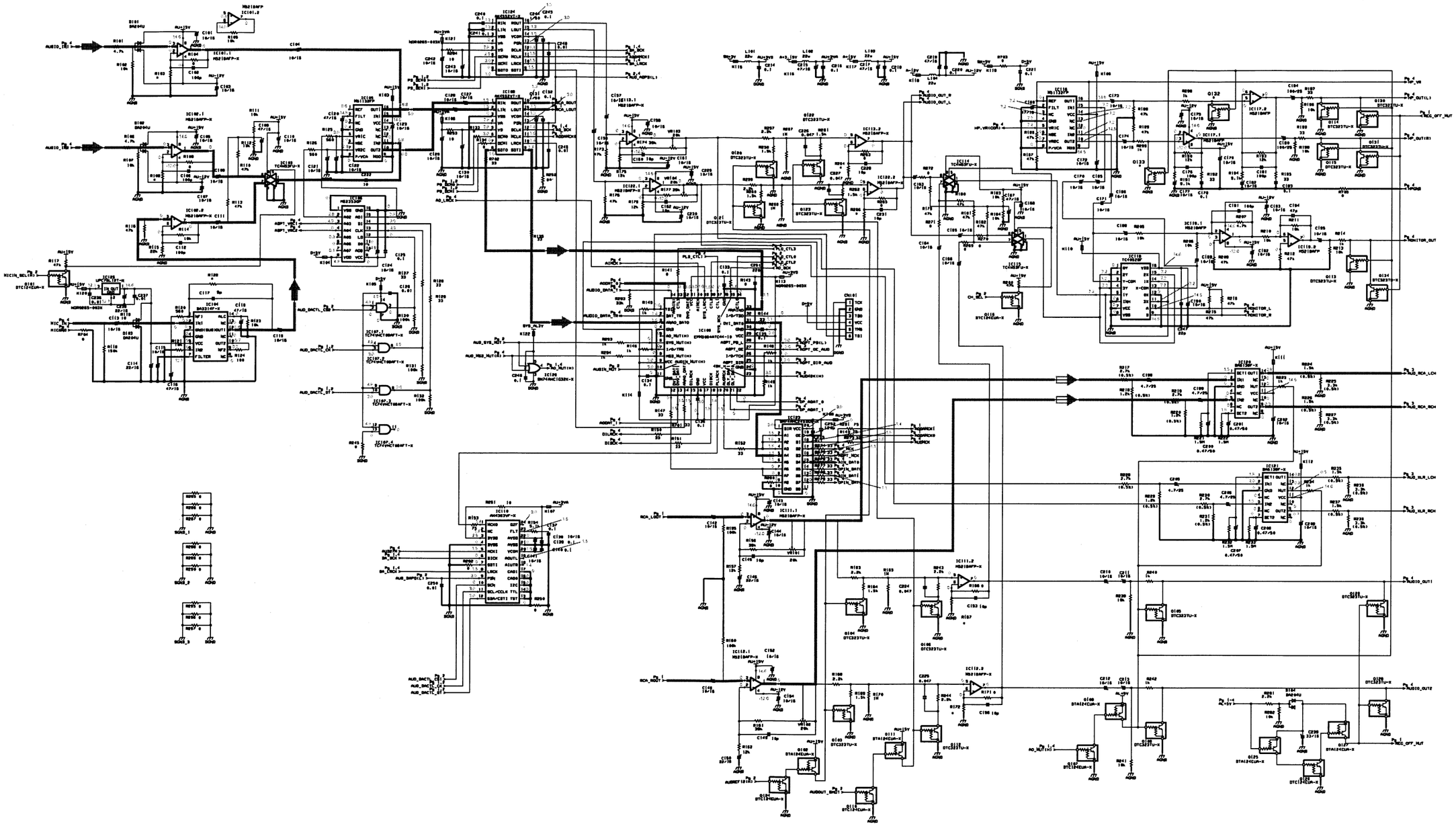
C1	B-7D	C153	B-10E	C419	A-13C	C660	B-4G	C857	B-16H	TP1010	A-10L
C2	B-7E	C154	A-10D	C420	A-14C	C661	A-4G	C858	B-16H		
C3	A-7D	C155	B-10E	C421	A-14D	C662	B-3G	C859	A-16H	CN2	A-2J
C4	A-6D	C156	A-10D	C422	A-14D	C663	B-3F	C860	A-16H	CN3	A-2H
C5	B-6E	C201	B-12C	C425	B-13C	C664	B-3G	C861	A-16H	CN4	A-2F
C6	B-6E	C202	B-11C	C426	B-13C	C665	B-3F	C862	B-17F	CN6	A-17F
C7	A-6E	C203	A-11C	C427	A-13C	C666	B-2H	C863	B-15G	CN7	A-9A
C8	B-7E	C204	B-11D	C428	B-13B	C667	B-5J	C864	B-15G	CN8	A-14A
C9	A-7E	C205	B-12D	C429	B-13B	C668	B-5J	C865	B-15G	CN9	A-16A
C10	B-6E	C206	A-12D	C430	A-12B	C669	A-5H	C866	B-16G	CN11	A-2E
C11	A-6D	C208	B-11E	C431	A-12B	C670	B-4J	C867	B-16G	CN102	A-7A
C12	B-8E	C209	B-12E	C432	A-12B	C671	B-4J	C868	B-16G	CN104	A-6B
C13	A-7D	C210	A-11D	C433	A-13B	C672	A-4H	C869	B-16H		
C14	A-7E	C211	B-12E	C434	A-14B	C673	B-4H	C870	B-16G	K1	B-8G
C15	B-7J	C212	B-11E	C435	A-14C	C674	B-4J	C871	A-16G	K2	B-8H
C16	B-7J	C213	B-11E	C444	B-18B	C675	B-4H	C872	A-16G	K3	B-7J
C17	A-7J	C214	A-11F	C445	B-18B	C676	A-4H	C873	A-16G	K4	B-8G
C18	B-8H	C217	B-11F	C446	A-18B	C677	B-3J	C874	B-17E	K5	B-10C
C19	B-7H	C218	B-11F	C447	B-16D	C678	B-3H	C875	B-16G	K6	B-10C
C20	B-8H	C219	B-11F	C448	B-16D	C679	B-3H	C876	B-17D	K7	B-11C
C21	B-7H	C220	B-11G	C450	B-15D	C680	B-5J	C877	B-17D	K201	B-9K
C22	B-7H	C221	B-11G	C451	B-15C	C681	B-5J	C878	B-17C	K202	B-8J
C23	B-7H	C222	B-11G	C452	B-15C	C682	A-5J	C879	B-17E	K203	A-11C
C24	B-7H	C223	B-11G	C453	B-15B	C683	B-4K	C880	A-9B	K204	B-12C
C25	B-8G	C224	B-11G	C454	B-15B	C684	B-4K	C881	A-9B	K401	B-14F
C26	B-8G	C225	B-11G	C455	B-16B	C685	A-4J	C882	A-10B	K402	B-15D
C27	A-8G	C226	B-11G	C456	B-16B	C686	B-4J	C883	A-10B	K403	B-15C

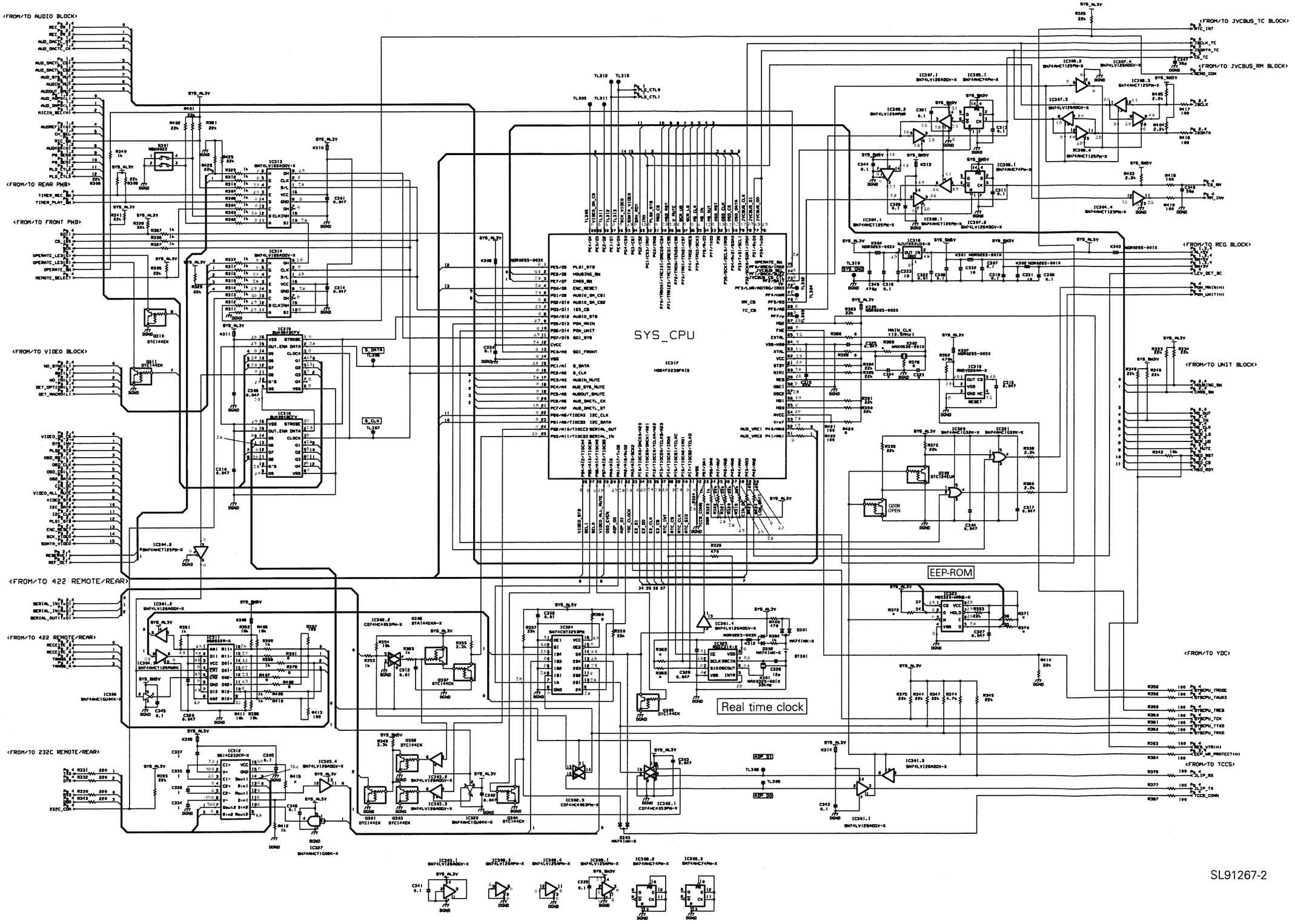
K404	A-14E	L1	B-6D
K405	A-14E	L2	B-6E
K406	A-14C	L3	B-7J
K407	A-14C	L4	B-8G
K408	B-14B	L5	B-8G
K409	A-14B	L6	B-7G
K410	B-17B	L7	B-8G
K411	B-17B	L8	B-7G
K412	B-6C	L9	B-9F
K413	B-15D	L10	B-9F
K414	B-7B	L11	B-8F
K415	B-8B	L12	B-8F
K416	B-16A	L13	B-8F
K417	B-15B	L14	B-6F
K418	B-15B	L16	B-9G
K419	B-15C	L17	B-10G
K501	B-7L	L19	B-10D
K502	B-4D	L20	B-11E
K503	A-7K	L201	B-11C
K504	B-6G	L202	B-12D
K505	B-3D	L203	B-11F
K506	B-7K	L204	B-12C
K801	B-15H	L205	B-12D
K802	B-15G	L206	B-12E
K803	B-17D	L207	B-8J
K804	B-17E	L208	B-8J
K805	A-17D	L209	B-11J
K806	B-17C	L401	B-13E
K807	A-9B	L402	B-13D
K808	A-10B	L403	B-13B
K809	B-11B	L404	B-17B
K810	B-12B	L601	B-6G
K811	A-16H	L602	B-5E
K812	A-17F	L603	B-4E
K813	A-16G	L604	B-4E
K814	B-18E	L605	B-4E
K815	A-15F	L606	B-5F
K816	B-15J	L607	B-4F
K817	A-15F	L608	B-4F
K818	A-16E	L609	B-4F
K819	B-17J	L610	B-5G
K1001	B-14K	L611	B-4G
K1002	B-15K	L612	B-4G
K1003	A-15L	L613	B-4G
K1004	A-18F	L614	B-5H
K1005	A-17G	L615	B-4J
		L616	B-4H
LC201	A-12H	L617	B-4H
LC202	A-14H	L618	B-5J
		L619	B-4K
		L620	B-4J
		L621	B-4J
		L622	B-5K
		L623	B-4K
		L624	B-4K
		L625	B-4K
		L626	B-5H
		L627	B-5G
		L628	B-4G
		L629	B-4G
		L801	A-15E
		L1001	B-14K
		L1002	B-14K
		MA1	-1A
		MA2	-18B
		MA3	-18K
		MA4	-1K

4.10 SYS/AUDIO BOARD SCHEMATIC DIAGRAM 02 (1/4)

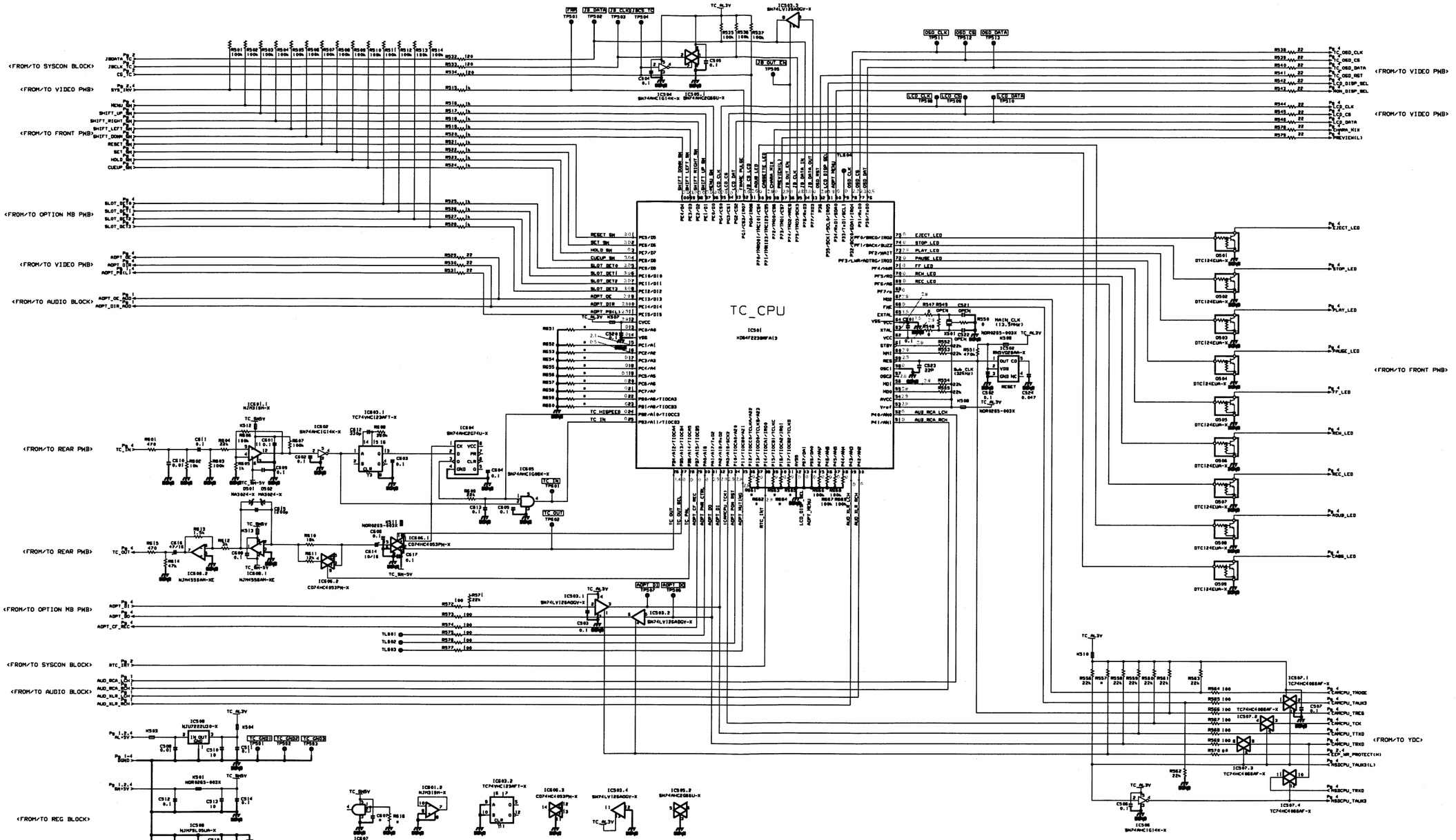


SL91267-1

– SYS/AUDIO BOARD SCHEMATIC DIAGRAM 02 (2/4) –



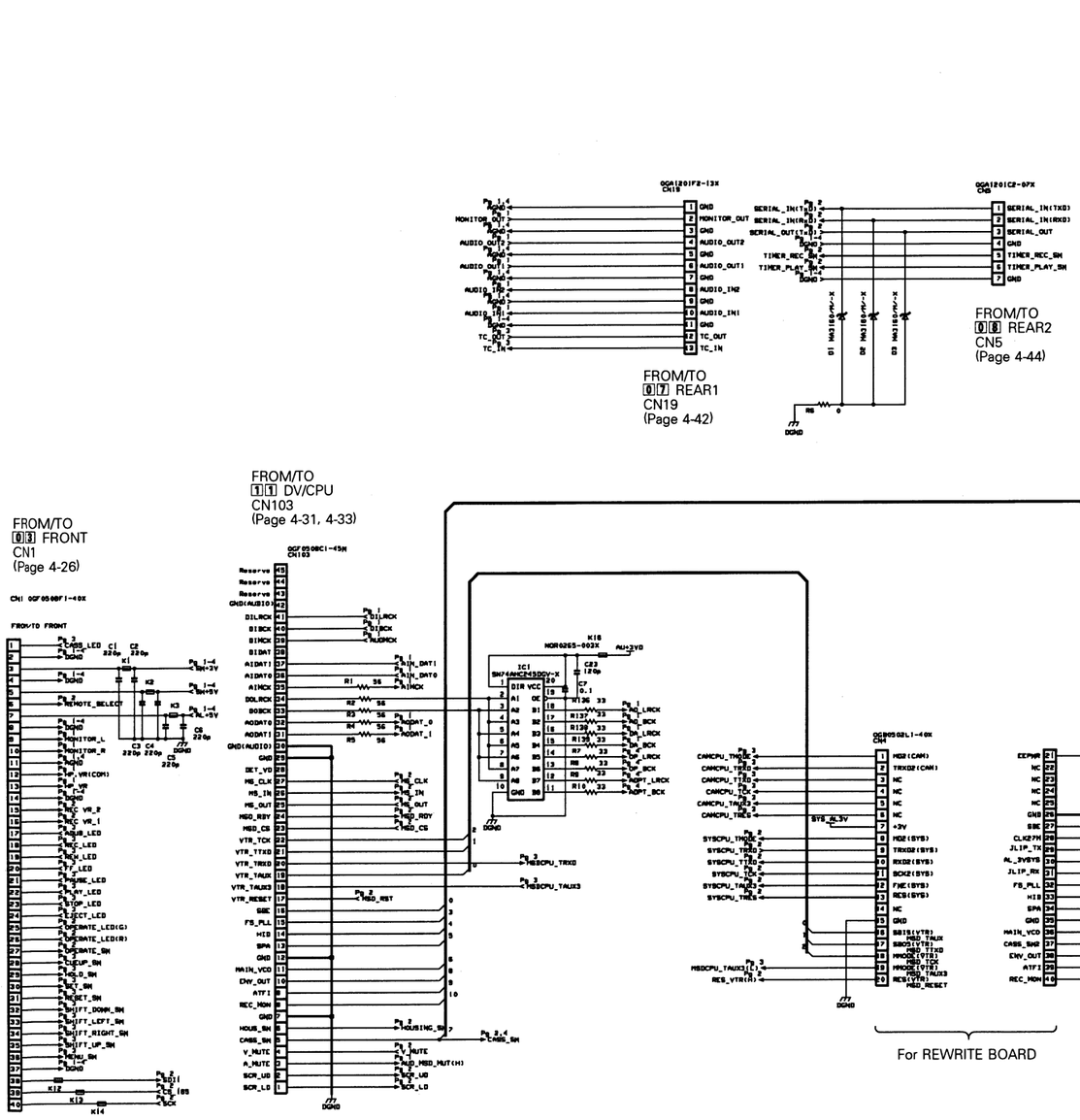
— SYS/AUDIO BOARD SCHEMATIC DIAGRAM 02 (3/4) —



USED No.	NO USED No.
C501 ~ C520,C523,C524,C601 ~ C617	C521 ~ C522
D501 ~ D502	
IC501 ~ IC509,IC601 ~ IC608	
K501 ~ K502	
Q501 ~ Q508	
R501 ~ R548,R550 ~ R577	R549
R601 ~ R616,R651 ~ R669	
TP501 ~ TP513, TP591 ~ TP593	
TP601 ~ TP602, TP651 ~ TP655	
X501	

SL91267-3

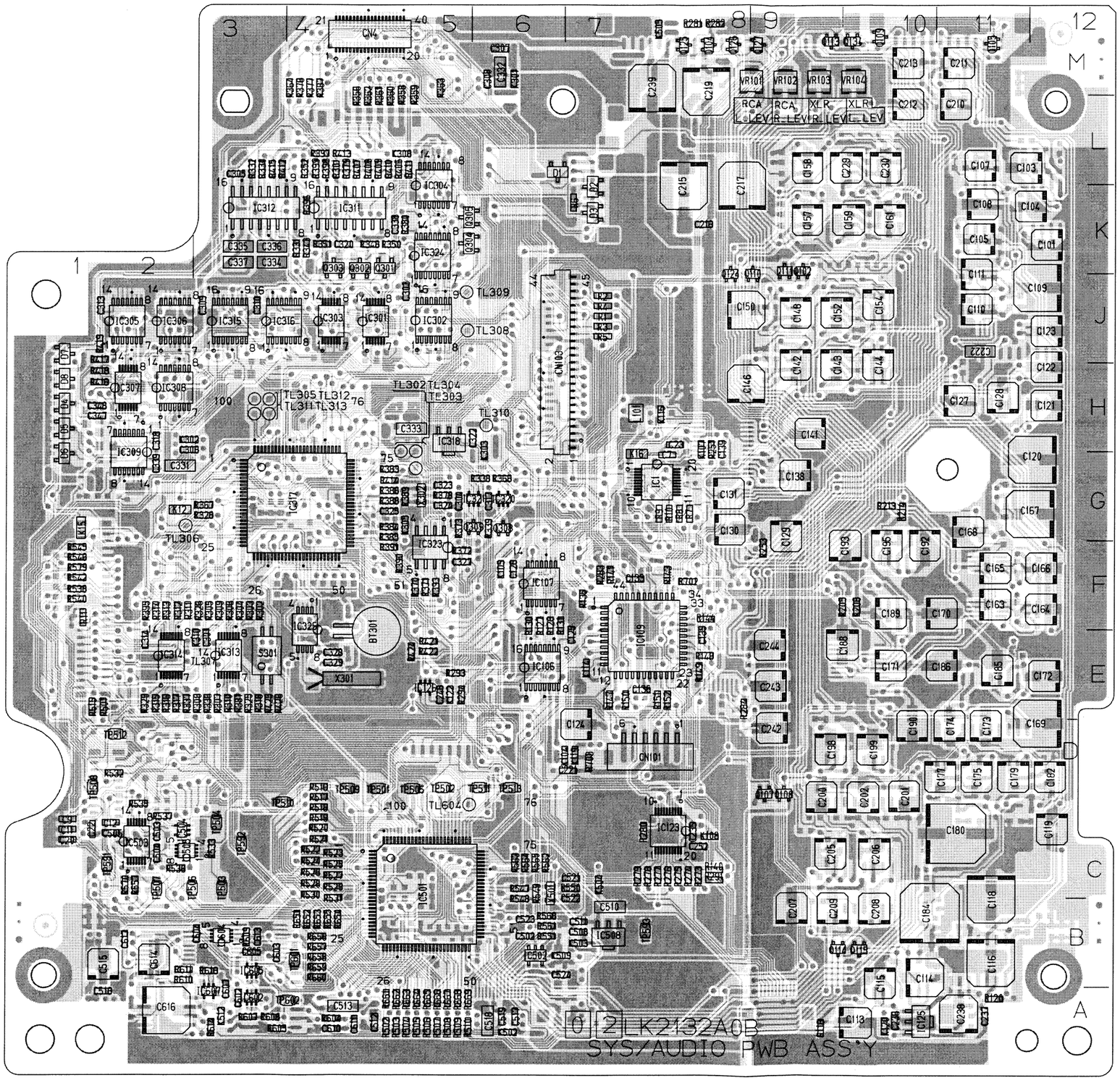
– SYS/AUDIO BOARD SCHEMATIC DIAGRAM 02 (4/4) –



SL91267-4

4.11 SYS/AUDIO CIRCUIT BOARD

– SIDE A –



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● **ADDRESS TABLE OF BOARD PARTS**

Each address may have an address error by one interval.

Side A-1C (1C: Y axis, X axis)

IC1	A-8G	Q109	A-10M	R105	B-12K	R188	B-11D	R279	A-7C	R359	A-5M	R513	B-2C
IC101	B-12K	Q110	A-9K	R106	B-11L	R189	B-11D	R280	A-7C	R360	A-5M	R514	B-2C
IC102	B-11K	Q111	A-9K	R107	B-11L	R190	B-11D	R281	A-8M	R361	A-5M	R515	A-1E
IC103	B-11J	Q112	B-10K	R108	B-11L	R191	B-11D	R282	A-8M	R362	A-4M	R516	A-4D
IC104	B-11B	Q113	A-9M	R109	B-11L	R192	B-11C	R283	A-7F	R363	A-5M	R517	A-4D
IC105	B-11H	Q114	A-10B	R110	B-11J	R193	B-12D	R284	A-8E	R364	A-4M	R518	A-4D
IC106	A-6E	Q115	A-10B	R111	B-11J	R194	B-12D	R285	B-12B	R365	B-5J	R519	A-4C
IC107	A-6F	Q116	B-11G	R112	B-11J	R195	B-12C	R286	B-12B	R366	A-6G	R520	A-4C
IC108	B-8G	Q120	B-10L	R113	B-11J	R196	B-10B	R287	B-12B	R367	A-3G	R521	A-4C
IC109	A-7E	Q121	B-10L	R114	B-11K	R197	B-10B	R288	B-11M	R368	B-4E	R522	A-4C
IC110	B-8H	Q122	B-10L	R115	B-11K	R198	B-10C	R289	B-11M	R369	B-4E	R523	A-4C
IC111	B-9J	Q123	B-10L	R116	B-11K	R199	B-10C	R290	B-11M	R370	A-5F	R524	A-4C
IC112	B-9J	Q124	A-8K	R117	B-11J	R200	B-11G	R291	A-8C	R371	A-5F	R525	A-4C
IC113	B-9K	Q125	A-8M	R118	A-9A	R205	A-10F	R292	B-8H	R372	A-5F	R526	A-4C
IC114	B-11F	Q126	A-8M	R119	B-11A	R206	A-10F	R293	A-5E	R373	A-5G	R527	A-4C
IC115	B-11F	Q127	A-9M	R120	A-11A	R207	B-10F	R294	A-5E	R374	B-4J	R528	A-4C
IC116	B-11E	Q128	B-11M	R121	B-11A	R209	B-10F	R295	B-1B	R375	B-3F	R529	A-4C
IC117	B-11D	Q129	B-11M	R122	B-12B	R210	B-10F	R296	B-1B	R376	A-4M	R530	A-4C
IC118	B-10E	Q130	B-11B	R123	B-12B	R211	B-10F	R297	B-1B	R377	A-4M	R531	A-4B
IC119	B-10F	Q131	B-10B	R124	B-11B	R212	B-10G	R298	B-12D	R378	A-5G	R532	A-2D
IC120	B-10D	Q132	B-12D	R125	B-11H	R213	A-10G	R299	B-11D	R379	A-4L	R533	A-3C
IC121	B-10C	Q133	B-11D	R126	B-11H	R214	A-10G	R301	A-4L	R380	A-5K	R534	B-1G
IC122	B-9L	Q134	A-10M	R127	A-6F	R215	B-10F	R302	A-3F	R381	A-3E	R535	A-2D
IC123	A-8C	Q301	A-5K	R128	A-6F	R216	B-10F	R303	A-3F	R383	A-5G	R536	A-2C
IC124	B-8E	Q302	A-4K	R129	B-6E	R217	B-9E	R304	A-3F	R384	A-5G	R537	A-2C
IC125	A-10A	Q303	A-4K	R130	A-6F	R218	B-9E	R305	A-3F	R385	A-5G	R538	A-1F
IC126	A-5E	Q304	A-5K	R131	A-6F	R219	B-9E	R306	A-3F	R386	A-5G	R539	B-1F
IC301	A-4J	Q305	A-5K	R132	B-6E	R220	B-10E	R307	A-3E	R387	A-4M	R540	A-1F
IC302	A-5J	Q306	B-4J	R133	B-8F	R221	B-10D	R308	A-3E	R388	A-5G	R541	B-1F
IC303	A-4J	Q307	B-4J	R134	B-8F	R222	B-10D	R309	A-3F	R389	A-5G	R542	A-1F
IC304	A-5L	Q308	A-6G	R135	A-7F	R223	B-9D	R310	A-3E	R390	A-5F	R543	B-1F
IC305	A-2J	Q309	A-6G	R136	B-8G	R224	B-10C	R311	A-2F	R391	A-5F	R544	B-1F
IC306	A-2J	Q310	B-4J	R137	B-8G	R225	B-10C	R312	A-2F	R392	B-4G	R545	A-1F
IC307	A-2H	Q311	B-3J	R138	B-8H	R226	B-10C	R313	A-2F	R393	A-5F	R546	A-1F
IC308	A-2H	Q501	B-5B	R139	B-8H	R227	B-10C	R314	A-2F	R394	B-4E	R547	A-6C
IC309	A-2H	Q502	B-5B	R140	A-8C	R228	B-9C	R315	A-2E	R395	A-2F	R548	A-6B
IC311	A-4K	Q503	B-5B	R141	A-7F	R229	B-9C	R316	A-2E	R396	A-4K	R549	A-6C
IC312	A-3K	Q504	B-5B	R143	A-8F	R230	B-9C	R317	A-2E	R397	A-4L	R550	A-7C
IC313	A-3E	Q505	B-5B	R144	A-8F	R231	B-10C	R318	A-3E	R398	A-4L	R551	A-6B
IC314	A-2E	Q506	B-6B	R145	B-7F	R232	B-10C	R319	B-4F	R399	A-4L	R552	B-6C
IC315	A-3J	Q507	B-6B	R146	B-7E	R233	B-10C	R320	B-4F	R400	B-4E	R553	B-6C
IC316	A-3J	Q508	B-6B	R147	A-7E	R234	B-9B	R321	B-4F	R401	B-3E	R554	B-6B
IC317	A-4G	Q509	B-7A	R148	A-8E	R235	B-9B	R322	B-4F	R402	B-3E	R555	B-6B
IC318	A-5H			R149	A-8E	R236	B-9B	R323	B-4F	R403	B-2J	R556	B-5C
IC319	B-4G	D1	A-6L	R150	A-7E	R237	B-10B	R324	B-4G	R404	B-2H	R557	A-2C
IC320	A-6G	D2	A-7L	R151	A-8E	R238	B-10B	R325	A-3E	R405	B-2H	R558	B-5C
IC321	A-6G	D3	A-7K	R152	A-8E	R239	B-11L	R326	A-3F	R406	A-5L	R559	B-5B
IC322	B-4J	D4	A-1H	R153	B-8G	R240	B-11M	R327	B-3J	R407	A-4L	R560	B-5C
IC323	A-5F	D5	A-1H	R154	B-9G	R241	B-11L	R328	A-3G	R408	A-4L	R561	A-6B
IC324	A-5K	D6	A-1G	R155	B-9J	R242	B-10M	R329	A-2E	R409	A-5L	R562	A-6C
IC325	A-4F	D7	A-1J	R156	B-9H	R243	B-10H	R330	A-3L	R410	A-5L	R563	A-6C
IC326	B-5L	D8	A-1H	R157	B-9J	R244	B-10J	R331	A-4K	R411	A-5L	R564	A-6C
IC327	B-3K	D101	B-12L	R160	B-9J	R245	B-6F	R332	A-3L	R412	A-3L	R565	A-6C
IC501	A-5C	D102	B-11K	R161	B-9J	R250	B-8H	R333	B-3G	R413	A-4L	R566	A-6B
IC502	A-6B	D103	B-11A	R162	B-9J	R251	A-8H	R334	B-3G	R414	A-5G	R567	B-5C
IC503	A-2C	D104	A-8M	R163	B-10J	R252	B-9D	R335	B-4F	R415	A-3L	R568	B-5C
IC504	A-2C	D301	B-4E	R164	B-10J	R253	A-9F	R336	A-3E	R416	A-2H	R569	B-5C
IC505	A-2C	D302	B-4E	R165	B-10J	R257	B-10K	R337	A-2E	R417	A-2J	R570	A-2C
IC506	B-6D	D303	B-5K	R166	B-10H	R258	B-10K	R338	A-6G	R418	A-2H	R571	B-2C
IC507	B-5D	D501	B-3B	R167	B-10J	R259	B-10L	R339	A-6G	R419	A-2J	R572	B-2C
IC508	A-7B	D502	B-3A	R168	B-10J	R260	B-10L	R340	B-4G	R420	B-5G	R573	B-2C
IC509	B-2B			R169	B-10J	R261	B-10K	R341	B-5G	R421	A-5E	R574	B-2C
IC601	B-3A	R1	A-7J	R170	B-10J	R262	B-10L	R342	B-4H	R422	A-5E	R575	B-2D
IC602	A-3A	R2	A-7J	R171	B-10J	R263	B-10K	R343	A-4K	R423	B-4G	R576	B-2D
IC603	B-3B	R3	A-7J	R172	B-10J	R264	B-10K	R344	B-5J	R424	A-5E	R577	B-2D
IC604	A-3B	R4	A-7J	R173	B-9K	R265	B-10L	R345	B-5J	R425	A-3E	R578	B-1F
IC605	A-3B	R5	A-7J	R174	B-9K	R266	B-10L	R346	B-4H	R426	A-3E	R579	A-1F
IC606	B-2B	R6	A-7K	R175	B-9K	R267	B-10K	R347	B-5J	R501	A-2E	R601	B-4A
IC607	A-3A	R7	A-8G	R176	B-9L	R268	B-10L	R348	A-4K	R502	A-5A	R602	B-4A
IC608	B-2A	R8	A-8G	R177	B-9L	R269	B-11F	R349	B-4H	R503	A-5A	R603	B-4A
		R9	A-8G	R178	B-9L	R270	B-12F	R350	A-5K	R504	A-5A	R604	A-4A
Q101	B-11J	R10	A-8G	R179	B-12F	R271	B-12F	R351	A-4K	R505	A-5A	R605	A-3A
Q102	A-9K	R11	A-1F	R180	B-12F	R272	B-11F	R352	A-4L	R506	A-5A	R606	A-3A
Q103	B-9K	R12	B-2E	R181	B-12F	R273	A-8C	R353	B-5J	R507	A-5A	R607	A-3A
Q104	B-10K	R13	B-2D	R182	B-12F	R274	A-8C	R354	B-5J	R508	A-5A	R608	B-4B
Q105	A-11M	R101	B-12L	R183	B-11G	R275	A-8C	R355	B-3J	R509	A-5A	R609	A-3B
Q106	B-10K	R102	B-12L	R184	B-11G	R276	A-8C	R356	A-4M	R510	A-6A	R610	A-2B
Q107	A-9D	R103	B-12L	R186	B-11E	R277	A-8C	R357	B-5K	R511	B-2C	R611	A-2B
Q108	A-9D	R104	B-12L	R187	B-11D	R278	A-7C	R358	A-5M	R512	B-2C	R612	B-2B

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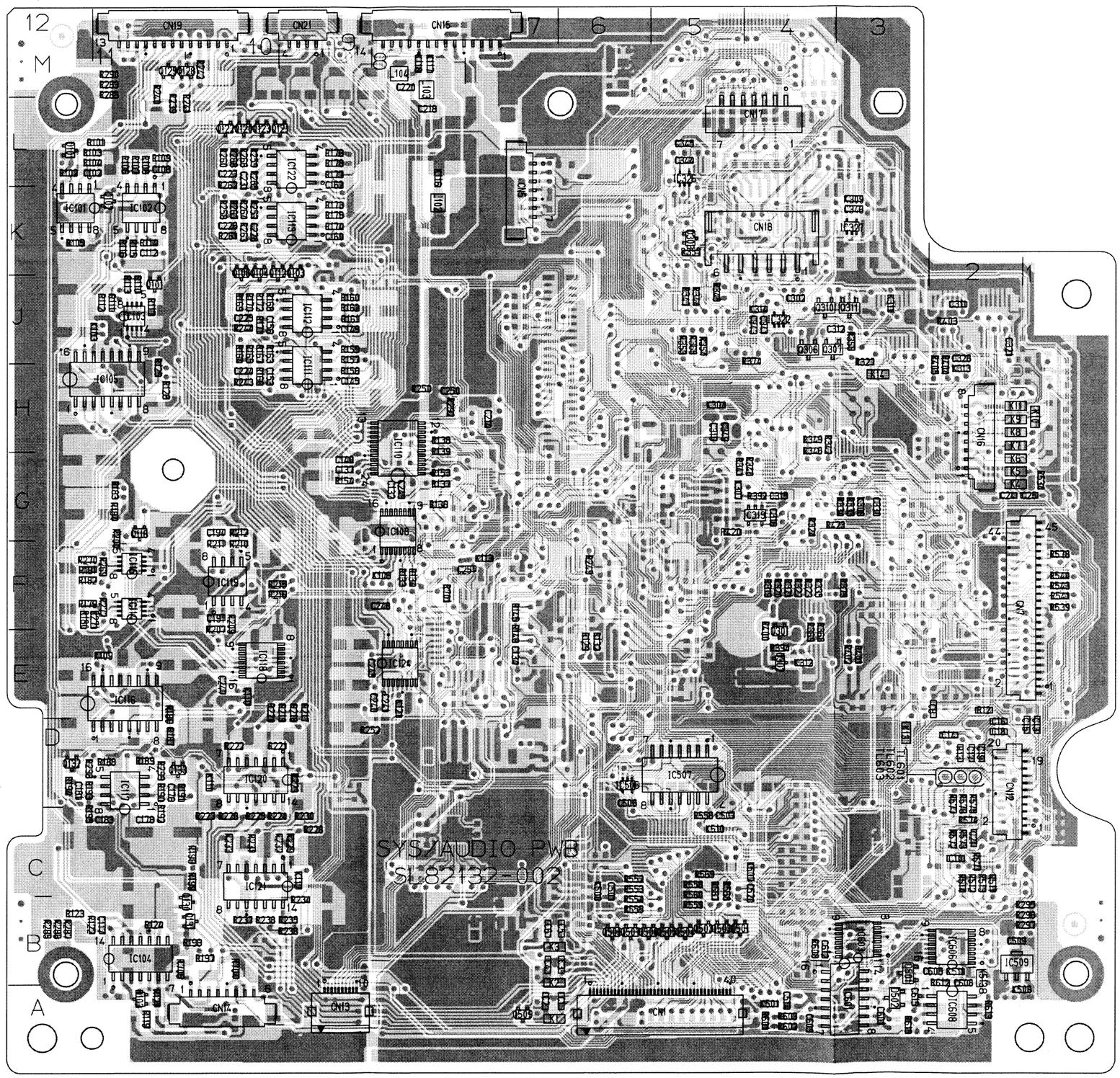
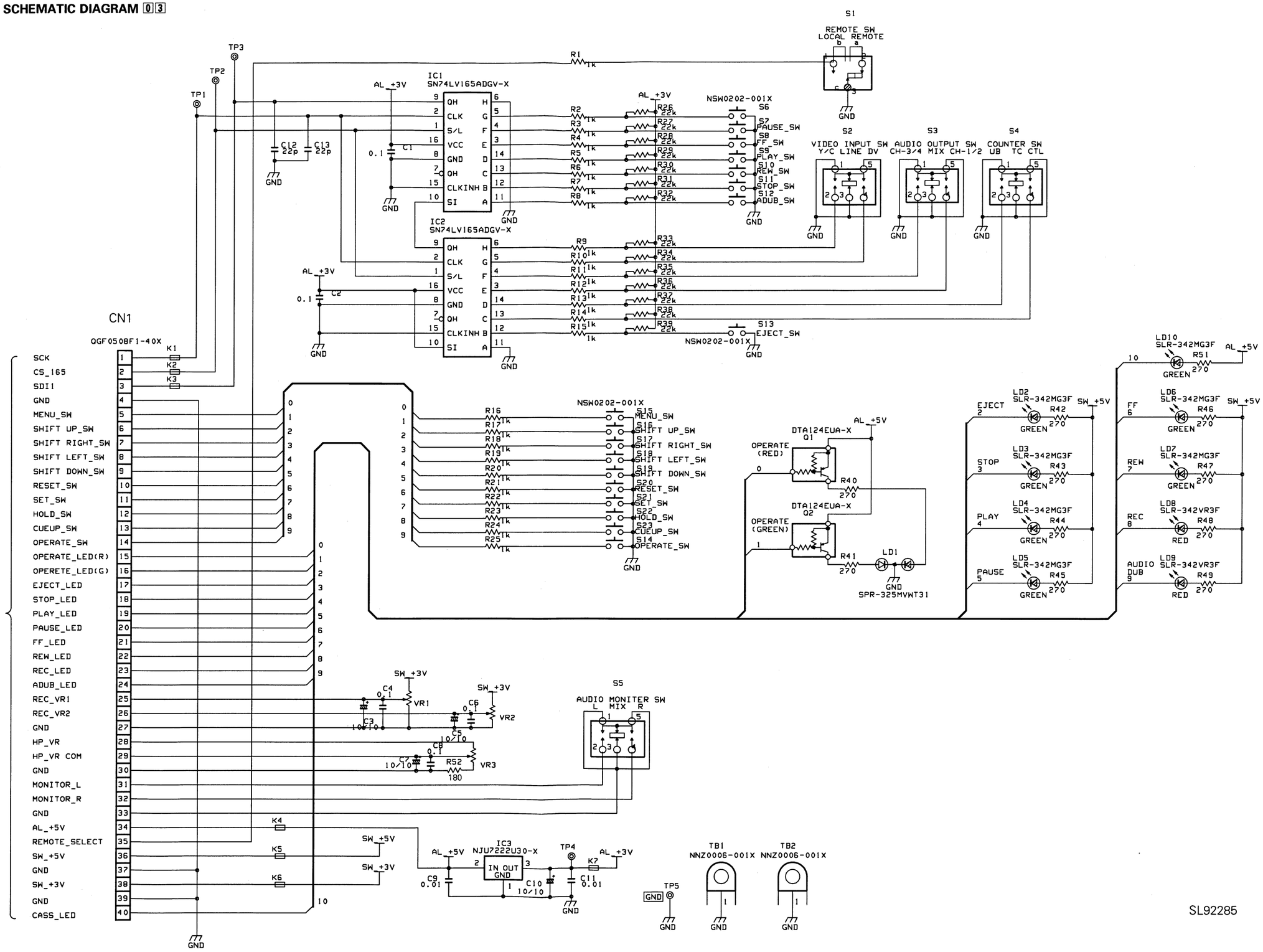
R613	B-2A	C121	A-12H	C208	A-10B	C339	A-2G	CN13	B-9A	L101	A-7H
R614	A-3A	C122	A-12H	C209	A-9B	C341	B-4J	CN14	B-10A	L102	B-8K
R615	B-3A	C123	A-12J	C210	A-11L	C343	B-4J	CN15	B-8M	L103	B-8M
R616	A-3B	C124	A-7D	C211	A-11M	C344	B-5L	CN16	B-2H	L104	B-8M
R651	A-4B	C125	A-7E	C212	A-10L	C345	B-5L	CN17	B-4L		
R652	A-4B	C126	A-6F	C213	A-10M	C346	B-3K	CN18	B-4K	MA1	-1B
R653	A-4B	C127	A-11H	C214	B-7H	C347	A-1H	CN19	B-11M	MA2	-12B
R654	A-4B	C128	A-11H	C215	A-8L	C348	A-1H	CN21	B-9M	MA3	-12M
R655	A-4B	C129	A-9G	C216	A-8K	C349	B-5H	CN101	A-7D	MA4	-1M
R656	A-4B	C130	A-8G	C217	A-8L	C501	B-6C	CN103	A-6J		
R657	A-4B	C131	A-8G	C218	B-8L	C502	A-6B			TL302	A-5H
R658	A-4B	C132	B-8G	C219	A-8M	C503	A-2C	S301	A-3E	TL303	A-5G
R659	A-4B	C133	A-7F	C220	B-8M	C504	A-2C			TL304	A-5H
R660	A-4B	C134	B-7E	C221	A-7D	C505	A-2C	K1	B-7A	TL305	A-3H
R661	A-5A	C135	A-8E	C222	A-11J	C506	B-6D	K2	B-7B	TL306	A-2G
R662	A-5A	C136	A-7E	C224	B-10H	C507	B-5C	K3	B-7B	TL307	A-3E
R663	A-5A	C137	B-9G	C225	B-10J	C508	A-7B	K4	B-2G	TL308	A-5J
R664	A-5A	C138	A-9G	C226	B-10K	C509	B-2B	K5	B-2G	TL309	A-5J
R665	A-5A	C139	A-8H	C227	B-10L	C510	A-7B	K6	B-2G	TL310	A-6H
R666	A-5A	C140	B-9G	C228	B-10K	C511	A-7B	K7	B-2H	TL311	A-3H
R667	A-5A	C141	A-9H	C229	A-10L	C512	A-5A	K8	B-2H	TL312	A-3H
R668	A-5A	C142	A-9J	C230	A-10L	C513	A-4A	K9	B-2H	TL313	A-3H
R669	A-6A	C143	A-9J	C231	B-10L	C514	B-4A	K10	B-1H	TL601	B-2D
R701	B-8F	C144	A-10J	C235	A-8C	C515	A-2B	K11	B-2H	TL602	B-2D
R702	A-8F	C145	B-9H	C236	A-10A	C516	A-2A	K12	A-2G	TL603	B-2D
R703	A-7D	C146	A-8H	C237	A-11A	C517	A-6A	K13	B-3D	TL604	A-6D
R704	B-10B	C148	A-9J	C238	A-11A	C518	A-6A	K14	B-3H		
R705	B-11B	C149	B-9J	C239	A-7M	C519	A-6A	K15	A-1G		
		C150	A-8J	C240	B-8E	C520	B-4C	K16	A-7G		
VR101	A-9M	C152	A-9J	C241	B-8E	C521	A-7C	K103	B-12J		
VR102	A-9M	C153	B-10H	C242	A-9D	C522	A-7B	K104	A-7D		
VR103	A-9M	C154	A-10J	C243	A-9E	C523	A-6B	K105	A-6F		
VR104	A-10M	C156	B-10J	C244	A-9E	C524	A-7B	K106	B-8F		
		C157	A-9K	C245	B-9E	C601	B-3A	K107	A-8H		
C1	B-6A	C158	A-9L	C246	A-5E	C602	A-3A	K108	A-8C		
C2	B-7A	C159	A-10K	C247	B-10E	C603	A-3B	K109	B-11E		
C3	B-6B	C160	B-9K	C248	B-8F	C604	A-3B	K110	B-10E		
C4	B-7B	C161	A-10K	C249	B-8G	C605	A-3B	K111	B-10D		
C5	B-6B	C162	B-9L	C250	B-8H	C606	B-2B	K112	B-9C		
C6	B-7B	C163	A-11F	C251	B-7F	C607	A-3A	K113	B-7F		
C7	A-8G	C164	A-12F	C252	A-8C	C608	B-2B	K114	A-7E		
C8	B-2E	C165	A-11F	C301	A-3E	C609	B-4A	K115	A-8H		
C9	A-1C	C166	A-12F	C302	B-4J	C610	A-4A	K116	B-8L		
C10	B-2C	C167	A-12G	C303	A-5J	C611	A-4A	K117	B-8M		
C11	A-1C	C168	A-11G	C304	A-5G	C612	B-4B	K118	B-8M		
C12	A-2C	C169	A-12D	C305	A-3L	C613	A-3B	K119	A-7D		
C13	B-1D	C170	A-11F	C306	A-2H	C614	A-2B	K120	A-10A		
C14	B-2D	C171	A-10E	C307	A-6M	C615	B-3A	K121	B-8E		
C15	B-1D	C172	A-12E	C308	A-6M	C616	A-2A	K122	A-5E		
C16	B-2D	C173	A-11D	C309	A-3J	C617	A-2B	K301	A-6M		
C17	B-2D	C174	A-11D	C310	A-3J			K302	A-2H		
C18	B-2D	C175	A-11D	C311	B-2J	X301	A-4E	K303	A-6H		
C19	B-2D	C176	B-11D	C312	B-4J	X302	A-5G	K304	B-5H		
C20	A-1C	C177	A-11D	C313	A-2J	X501	A-6C	K305	A-5G		
C21	B-2C	C178	B-11C	C314	A-2E			K306	B-3G		
C22	A-1C	C179	A-11D	C315	B-4G	TP501	A-5D	K307	B-5G		
C23	A-8H	C180	A-11C	C316	B-4G	TP502	A-5D	K308	A-5L		
C24	B-2G	C181	B-12D	C317	A-6G	TP503	A-3C	K309	B-3K		
C25	B-1G	C182	A-12D	C318	A-2H	TP504	A-3C	K310	A-3E		
C101	A-12K	C183	B-11C	C319	B-5H	TP505	A-5D	K311	B-3J		
C102	B-12L	C184	A-10B	C320	A-4K	TP506	A-3C	K312	B-4E		
C103	A-12L	C185	A-11E	C321	B-2J	TP507	A-2C	K313	B-2H		
C104	A-12K	C186	A-11E	C322	A-6H	TP508	A-1D	K314	B-4J		
C105	A-11K	C188	A-10E	C323	A-5G	TP509	A-4D	K501	B-4A		
C106	B-11L	C189	A-10F	C324	A-5G	TP510	A-4D	K502	A-6A		
C107	A-11L	C190	A-10D	C325	A-5G	TP511	A-6D	K503	A-7B		
C108	A-11K	C191	B-10F	C326	B-2J	TP512	A-2D	K504	A-7C		
C109	A-12J	C192	A-10F	C327	A-5F	TP513	A-6D	K505	A-8M		
C110	A-11J	C193	A-10F	C328	A-4E	TP591	A-2C	K506	B-2A		
C111	A-11K	C194	B-10G	C329	A-4E	TP592	A-3C	K507	B-4C		
C112	B-11K	C195	A-10F	C330	B-3G	TP593	A-7B	K508	B-6C		
C113	A-10A	C198	A-9D	C331	A-2G	TP601	A-4B	K509	A-7B		
C114	A-10B	C199	A-10D	C332	A-6M	TP602	A-4A	K510	B-5C		
C115	A-10B	C200	A-9D	C333	A-5H			K511	B-2B		
C116	A-11B	C201	A-10D	C334	A-3K	CN1	B-5A	K512	A-3A		
C117	B-11B	C202	A-10D	C335	A-3K	CN4	A-4M	K513	B-2B		
C118	A-11B	C205	A-9C	C336	A-3K	CN5	B-7K				
C119	A-12C	C206	A-10C	C337	A-3K	CN7	B-1F	BT301	A-5E		
C120	A-12G	C207	A-9B	C338	A-5K	CN12	B-2D				

— SIDE B —



4-25

4.12 FRONT BOARD SCHEMATIC DIAGRAM 03

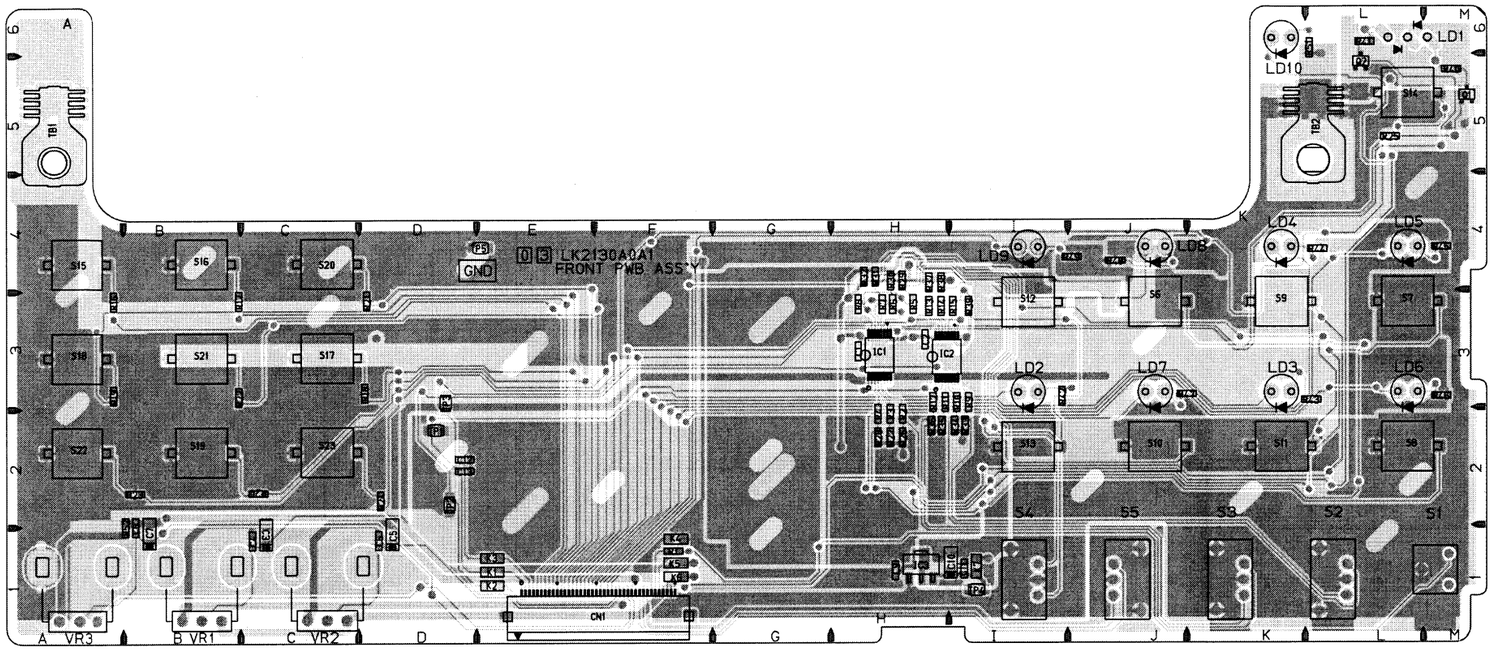


FROM/TO
02 SYS/AUDIO
CN1
(Page 4-23)

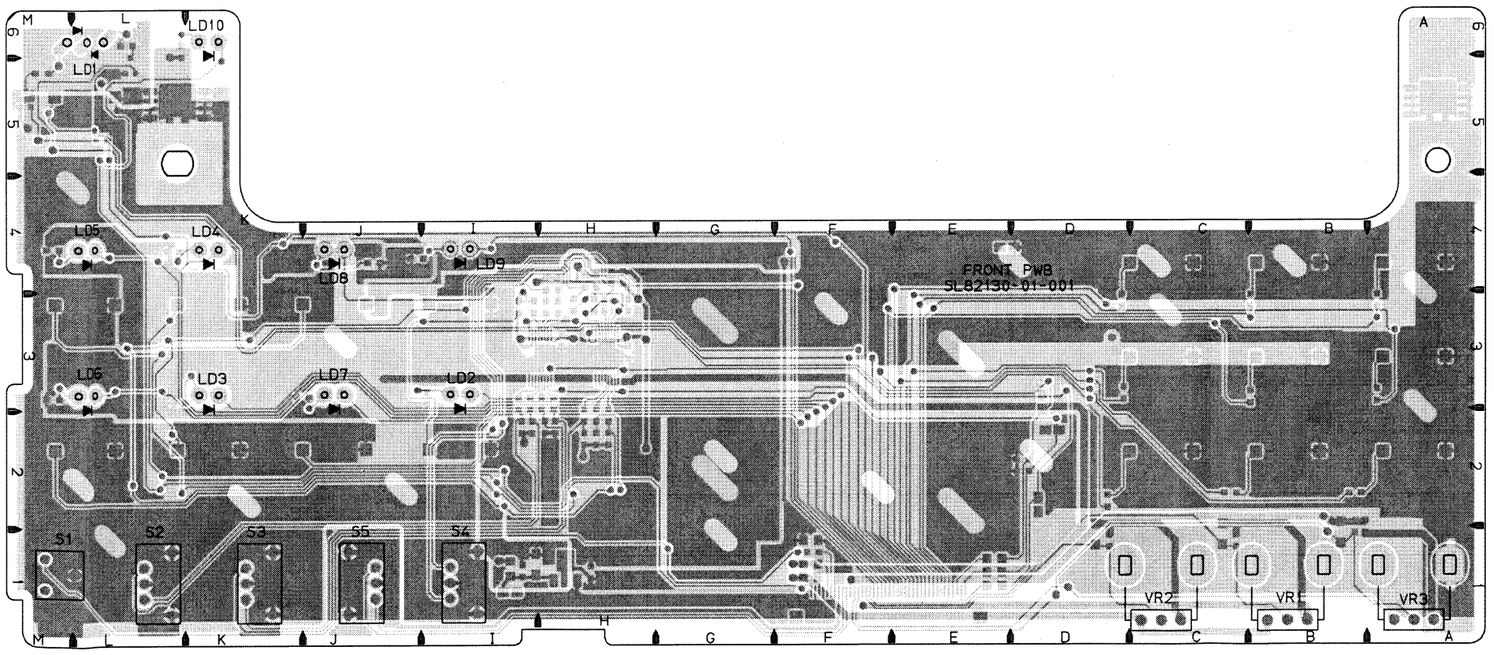
SL92285

4.13 FRONT CIRCUIT BOARD

– SIDE A –



– SIDE B –



●

● **ADDRESS TABLE OF BOARD PARTS**

Each address may have an address error by one interval.

Side A-1C (Y axis, X axis)

IC1	A-3H	R22	A-3C	R51	A-6L	TB2	A-5L	S6	A-4K
IC2	A-3I	R23	A-2B	R52	A-2B			S7	A-4M
IC3	A-1I	R24	A-2D			K1	A-1E	S8	A-2M
		R25	A-5M	VR1	A-1B	K2	A-1E	S9	A-4L
Q1	A-6M	R26	A-2H	VR2	A-1C	K3	A-1E	S10	A-2K
Q2	A-6L	R27	A-2H	VR3	A-1A	K4	A-1F	S11	A-2L
		R28	A-2H			K5	A-1F	S12	A-4I
R1	A-1F	R29	A-4H	C1	A-3H	K6	A-1F	S13	A-2I
R2	A-3H	R30	A-4H	C2	A-3I	K7	A-1I	S14	A-6M
R3	A-3H	R31	A-4H	C3	A-2C			S15	A-4A
R4	A-3H	R32	A-4H	C4	A-1C	LD1	A-6M	S16	A-4B
R5	A-4H	R33	A-3I	C5	A-2D	LD2	A-3I	S17	A-3C
R6	A-4H	R34	A-3I	C6	A-1D	LD3	A-3L	S18	A-3A
R7	A-4H	R35	A-3I	C7	A-2B	LD4	A-4L	S19	A-2B
R8	A-4H	R36	A-3I	C8	A-2B	LD5	A-4M	S20	A-4C
R9	A-3I	R37	A-4I	C9	A-1H	LD6	A-3M	S21	A-3B
R10	A-3I	R38	A-4I	C10	A-1I	LD7	A-3K	S22	A-2A
R11	A-3I	R39	A-4I	C11	A-1I	LD8	A-4K	S23	A-2C
R12	A-3I	R40	A-6M	C12	A-2E	LD9	A-4I		
R13	A-4I	R41	A-6L	C13	A-2E	LD10	A-6L		
R14	A-4I	R42	A-3J						
R15	A-4I	R43	A-3L	TP1	A-3D	CN1	A-1F		
R16	A-4A	R44	A-4L	TP2	A-2D				
R17	A-4C	R45	A-4M	TP3	A-3D	S1	A-1M		
R18	A-3D	R46	A-3M	TP4	A-1I	S2	A-1L		
R19	A-3A	R47	A-3K	TP5	A-4E	S3	A-1K		
R20	A-2C	R48	A-4J			S4	A-1I		
R21	A-4D	R49	A-4J	TB1	A-5A	S5	A-1J		

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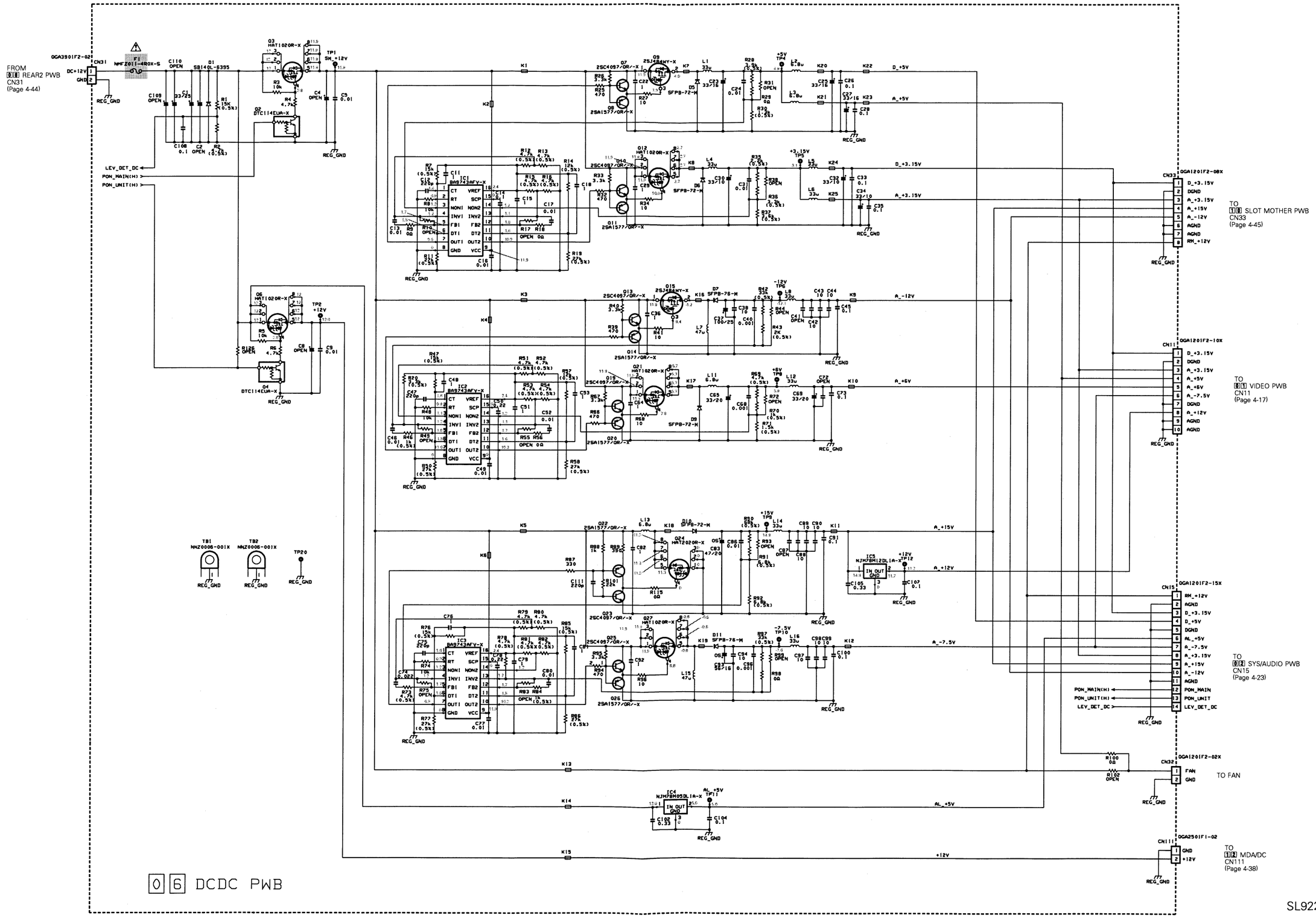
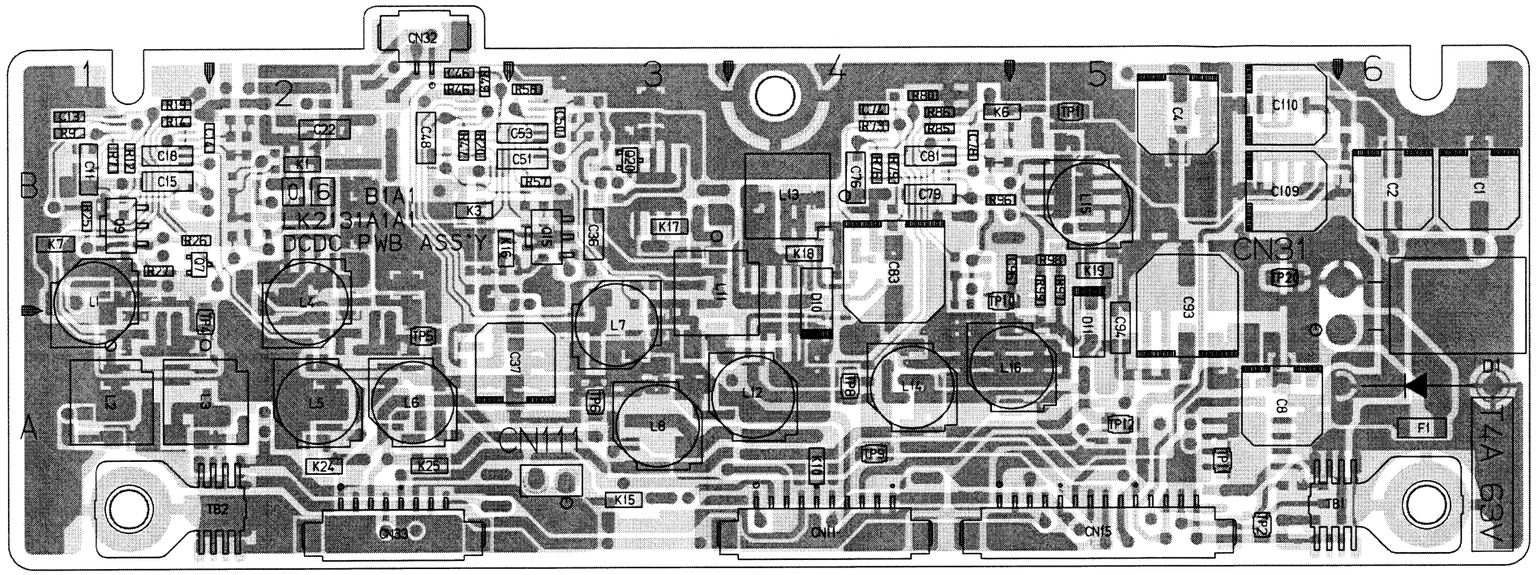
4.14 DCDC BOARD SCHEMATIC DIAGRAM 0 6

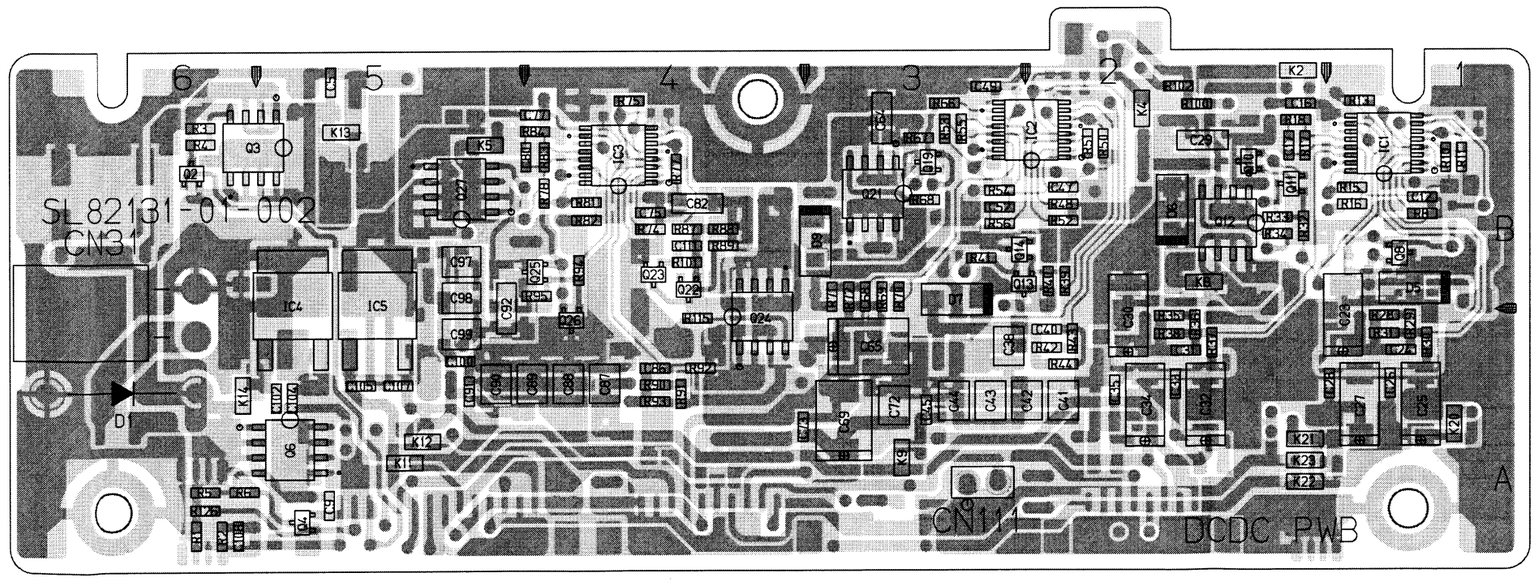


4.15 DCDC CIRCUIT BOARD

— SIDE A —



— SIDE B —



● **ADDRESS TABLE OF BOARD PARTS**

Each address may have an address error by one interval.

Side — A-1C — Y axis / X axis

IC1	B-1B	R7	A-1B	R55	B-3B	C1	A-6B	C52	B-3B	L3	A-1A	K16	A-2B
IC2	B-2B	R8	B-1B	R56	B-3B	C2	A-6B	C53	B-3B	L4	A-2B	K17	A-3B
IC3	B-4B	R9	A-1B	R57	A-3B	C4	A-5B	C64	B-3B	L5	A-2A	K18	A-4B
IC4	B-5A	R10	B-1B	R58	A-3B	C5	B-5B	C65	B-3A	L6	A-2A	K19	A-5B
IC5	B-5A	R11	B-1B	R66	B-3B	C8	A-6A	C68	B-3B	L7	A-3A	K20	B-1A
		R12	A-1B	R67	B-3B	C9	B-5A	C69	B-3A	L8	A-3A	K21	B-1A
Q2	B-6B	R13	B-1B	R68	B-3B	C11	A-1B	C72	B-3A	L11	A-3B	K22	B-1A
Q3	B-6B	R14	A-1B	R69	B-3B	C12	B-1B	C73	B-3A	L12	A-3A	K23	B-1A
Q4	B-5A	R15	B-1B	R70	B-3B	C13	A-1B	C74	A-4B	L13	A-4B	K24	A-2A
Q6	B-5A	R16	B-1B	R71	B-3B	C14	A-1B	C75	B-4B	L14	A-4A	K25	A-2A
Q7	A-1B	R17	B-1B	R72	B-3B	C15	A-1B	C76	A-4B	L15	A-5B		
Q8	B-1B	R18	B-1B	R73	A-4B	C16	B-1B	C77	B-4B	L16	A-4A	CN11	A-4A
Q9	A-1B	R19	A-1B	R74	B-4B	C17	B-1B	C78	A-4B			CN15	A-5A
Q10	B-2B	R20	A-2B	R75	B-4B	C18	A-1B	C79	A-4B	TP1	A-5B	CN31	A-6A
Q11	B-1B	R25	A-1B	R76	A-4B	C22	A-2B	C80	B-4B	TP2	A-5A	CN32	A-2C
Q12	B-2B	R26	A-1B	R77	B-4B	C23	B-1A	C81	A-4B	TP4	A-1A	CN33	A-2A
Q13	B-2B	R27	A-1B	R78	B-4B	C24	B-1A	C82	B-4B	TP5	A-2A	CN111	A-3A
Q14	B-3B	R28	B-1A	R79	A-4B	C25	B-1A	C83	A-4B	TP6	A-3A		
Q15	A-3B	R29	B-1A	R80	A-4B	C26	B-1A	C86	B-4A	TP8	A-4A	F1	A-6A
Q19	B-3B	R30	B-1A	R81	B-4B	C27	B-1A	C87	B-4A	TP9	A-4A		
Q20	A-3B	R31	B-1A	R82	B-4B	C28	B-1A	C88	B-4A	TP10	A-4B		
Q21	B-3B	R32	B-1B	R83	B-4B	C29	B-2B	C89	B-4A	TP11	A-5A		
Q22	B-4B	R33	B-1B	R84	B-4B	C30	B-2A	C90	B-5A	TP12	A-5A		
Q23	B-4B	R34	B-1B	R85	A-4B	C31	B-2A	C91	B-5A	TP20	A-6B		
Q24	B-4A	R35	B-2A	R86	A-4B	C32	B-2A	C92	B-5A				
Q25	B-4B	R36	B-2A	R87	B-4B	C33	B-2A	C93	A-5A	TB1	A-6A		
Q26	B-4A	R37	B-2A	R88	B-4B	C34	B-2A	C94	A-5A	TB2	A-1A		
Q27	B-5B	R38	B-2A	R89	B-4B	C35	B-2A	C96	A-4B				
		R39	B-2B	R90	B-4A	C36	A-3B	C97	B-5B	K1	A-2B		
D1	A-6A	R40	B-2B	R91	B-4A	C37	A-3A	C98	B-5B	K2	B-1B		
D5	B-1B	R41	B-3B	R92	B-4A	C38	B-3A	C99	B-5A	K3	A-2B		
D6	B-2B	R42	B-2A	R93	B-4A	C40	B-2A	C100	B-5A	K4	B-2B		
D7	B-3B	R43	B-2A	R94	B-4B	C41	B-2A	C102	B-5A	K5	B-5B		
D9	B-3B	R44	B-2A	R95	B-4B	C42	B-2A	C104	B-5A	K6	A-4B		
D10	A-4A	R46	A-2B	R96	A-4B	C43	B-3A	C105	B-5A	K7	A-1B		
D11	A-5A	R47	A-2B	R97	A-5B	C44	B-3A	C107	B-5A	K8	B-2B		
		R48	B-2B	R98	A-5B	C45	B-3A	C108	B-6A	K9	B-3A		
R1	B-6A	R49	A-2B	R99	A-5B	C46	A-2B	C109	A-6B	K10	A-4A		
R2	B-6A	R50	B-2B	R100	B-2B	C47	B-2B	C110	A-6B	K11	B-5A		
R3	B-6B	R51	B-2B	R101	B-4B	C48	A-2B	C111	B-4B	K12	B-5A		
R4	B-6B	R52	B-2B	R102	B-2B	C49	B-3B			K13	B-5B		
R5	B-6A	R53	B-3B	R115	B-4A	C50	A-3B	L1	A-1B	K14	B-6A		
R6	B-6A	R54	B-3B	R126	B-6A	C51	A-3B	L2	A-1A	K15	A-3A		

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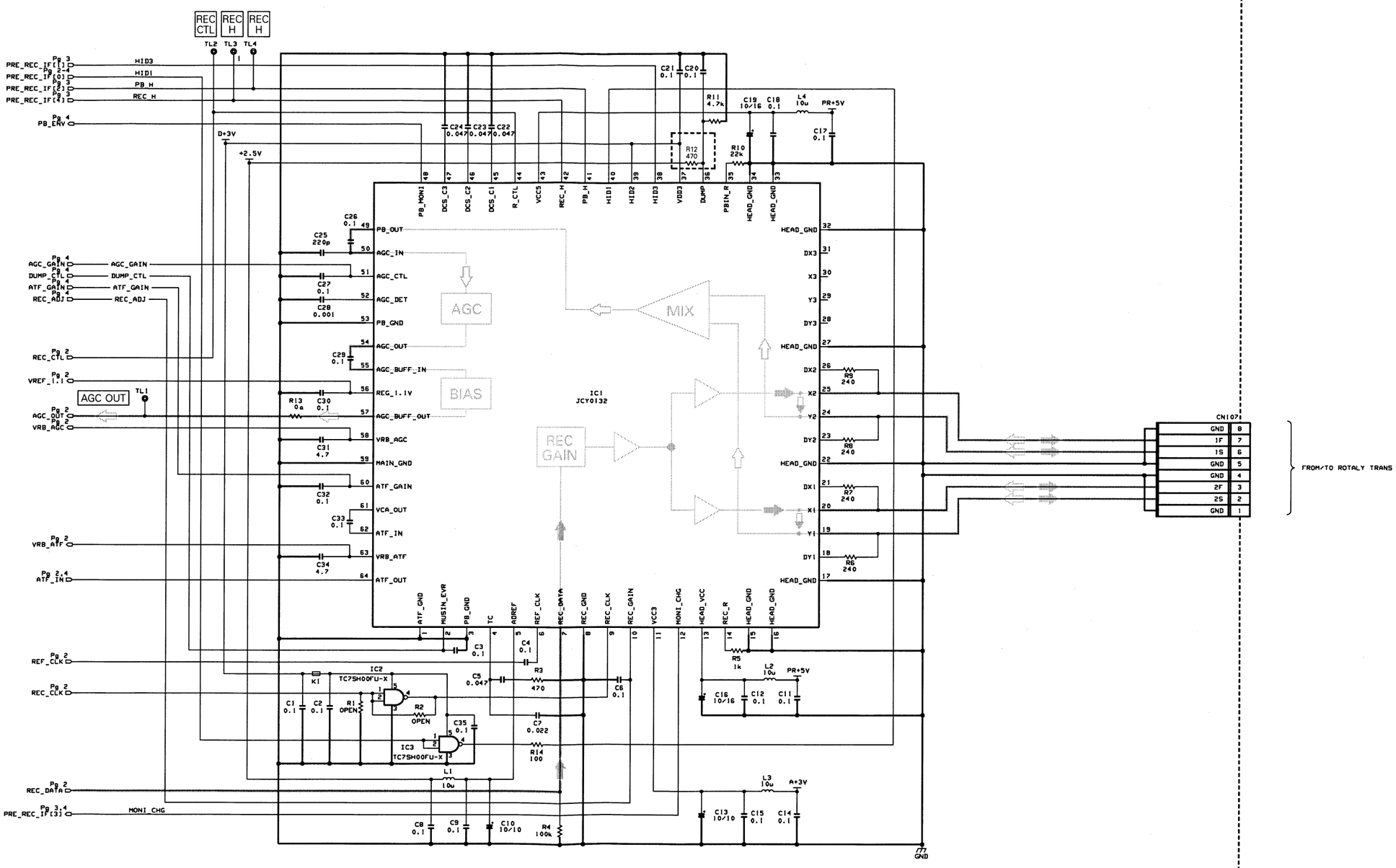
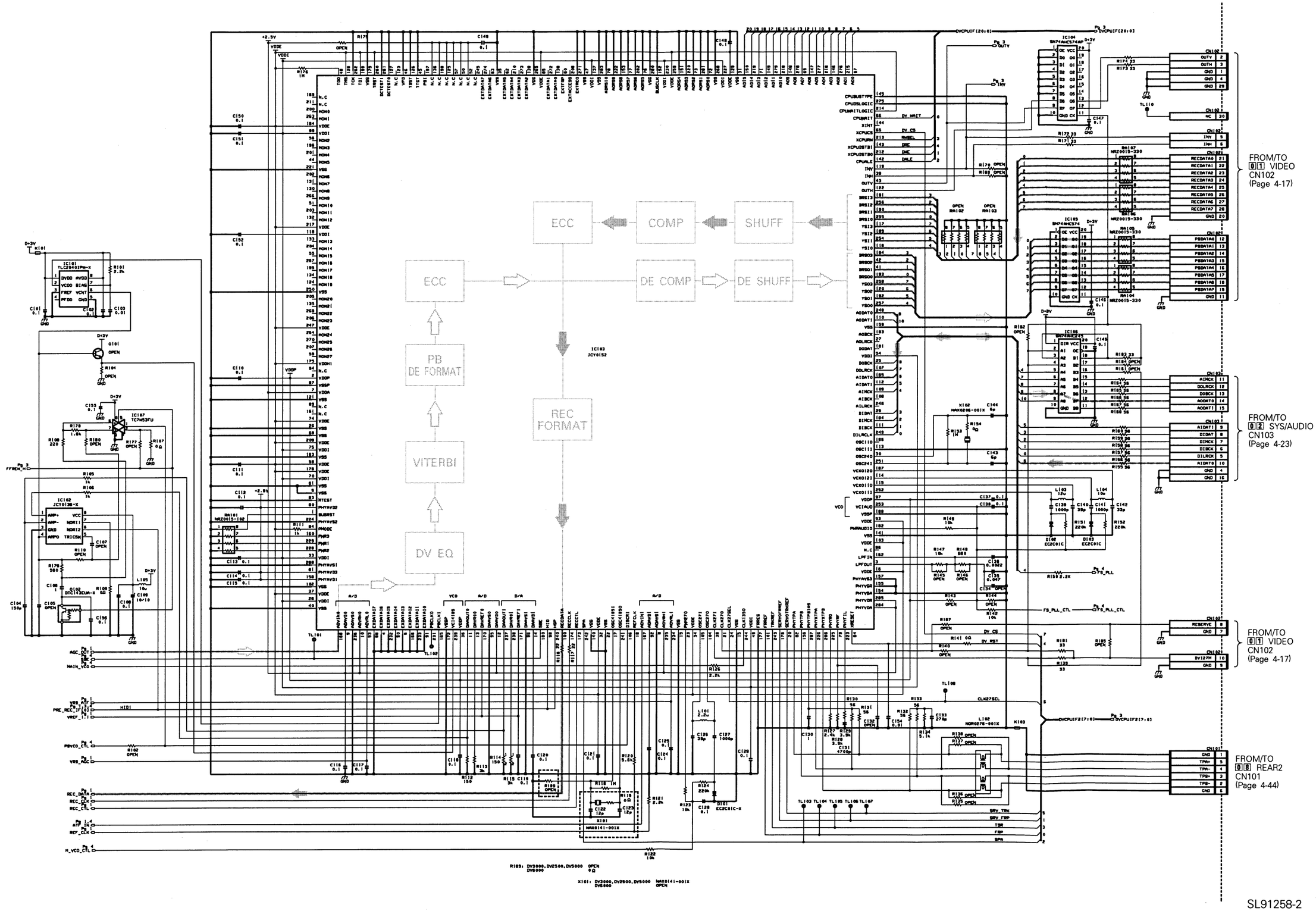
4.16 DV/CPU BOARD SCHEMATIC DIAGRAM 11 (1/4)

11 DV/CPU

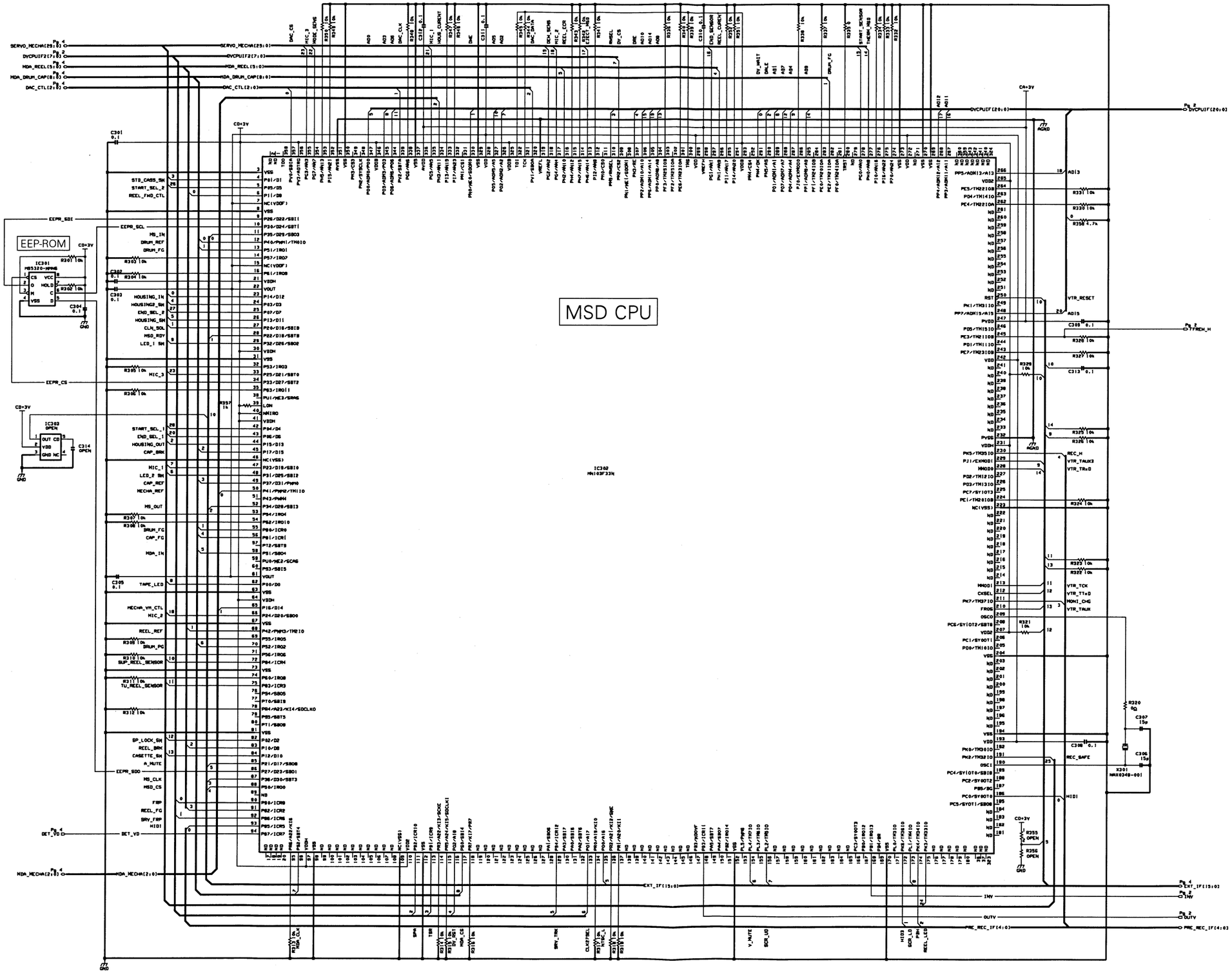


SL91258-1

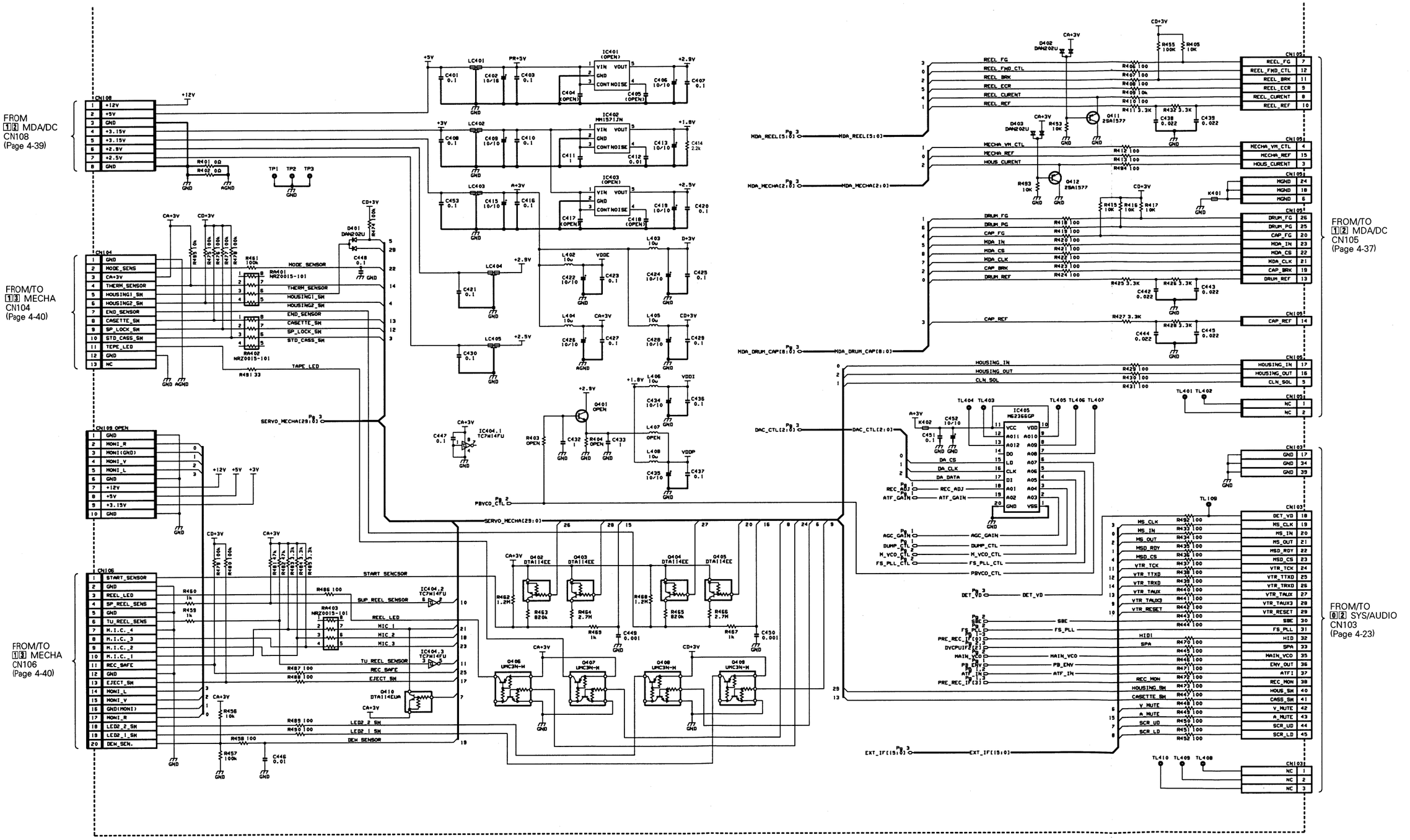
– DV/CPU BOARD SCHEMATIC DIAGRAM 11 (2/4) –



– DV/CPU BOARD SCHEMATIC DIAGRAM 11 (3/4) –



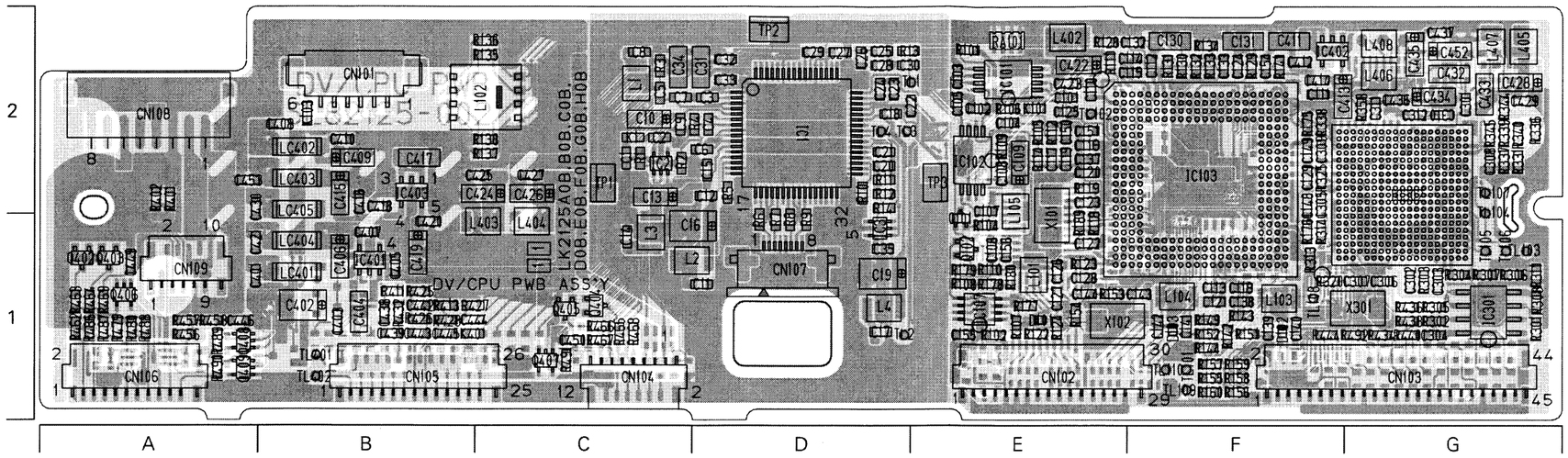
– DV/CPU BOARD SCHEMATIC DIAGRAM 11 (4/4) –



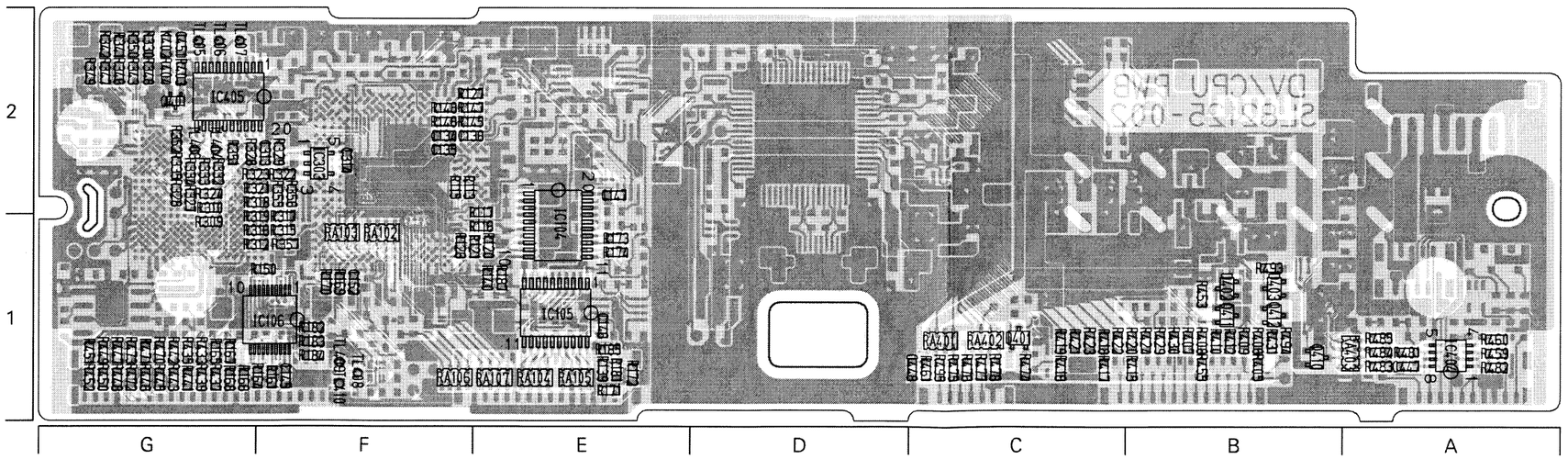
SL91258-4

4.17 DV/CPU CIRCUIT BOARD

— SIDE A —



— SIDE B —



● **ADDRESS TABLE OF BOARD PARTS**

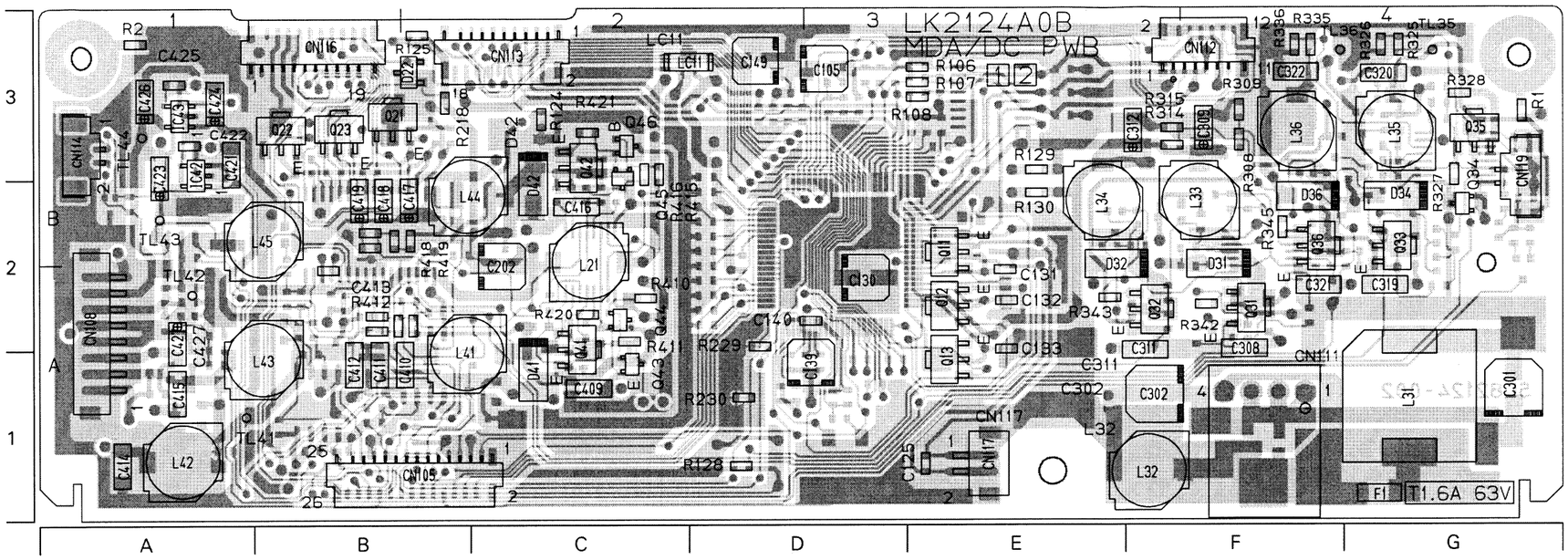
Each address may have an address error by one interval.

Side — A-1C (Y axis, X axis)

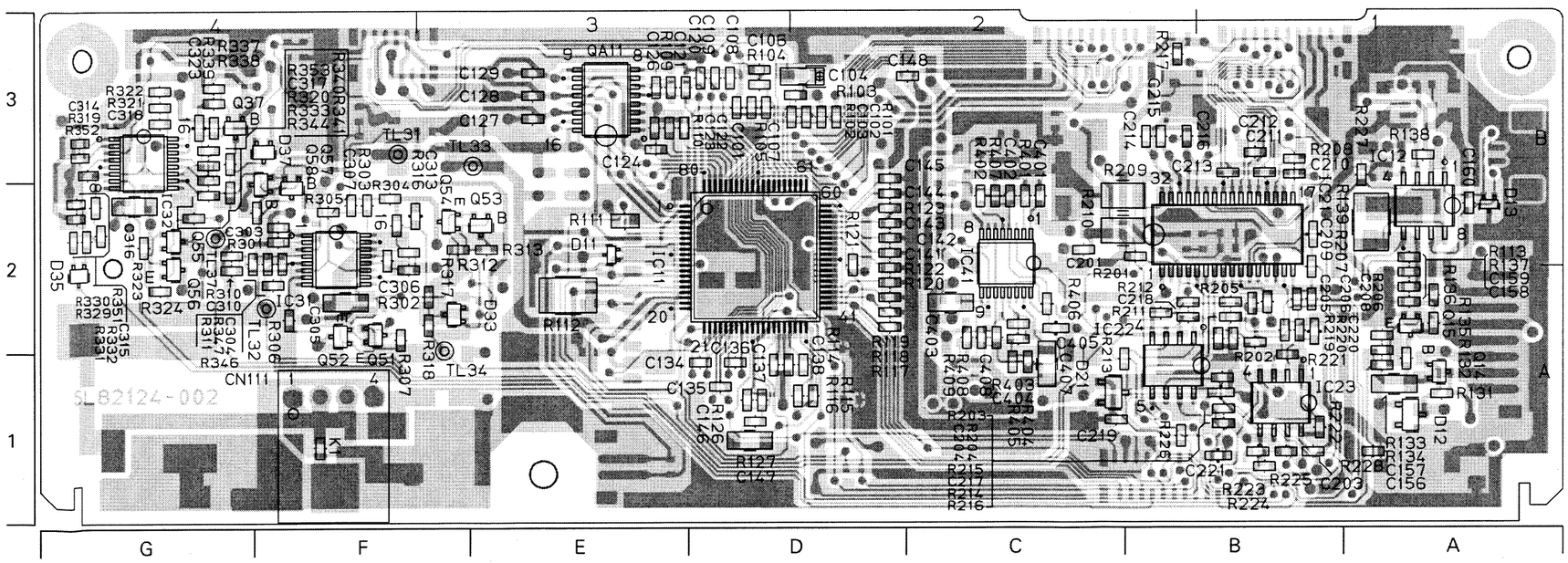
IC1	A-2D	R136	A-2C	R339	A-2G	R473	B-1G	C119	A-2E	C439	A-1B
IC2	A-2C	R137	A-2C	R340	A-2G	R474	B-1C	C120	A-2E	C442	A-1B
IC3	A-1D	R138	A-2C	R341	B-2G	R475	B-1C	C121	A-1F	C443	A-1B
IC101	A-2E	R139	B-1E	R342	B-2G	R476	B-1C	C122	A-1E	C444	A-1B
IC102	A-2E	R140	B-1E	R343	B-2G	R477	B-1C	C123	A-2E	C445	A-1B
IC103	A-2F	R141	A-2F	R344	A-2G	R478	B-1C	C124	A-2F	C446	A-1A
IC104	B-1E	R142	A-1F	R345	A-2G	R479	A-1A	C125	A-2E	C447	B-1A
IC105	B-1E	R143	A-1F	R346	B-2G	R480	A-1A	C126	A-1E	C448	B-1C
IC106	B-1F	R144	A-1F	R347	B-2G	R481	B-1A	C127	A-1E	C449	A-1A
IC107	A-1E	R145	B-2F	R348	B-2G	R482	B-1A	C128	A-1E	C450	A-1C
IC301	A-1G	R146	B-2F	R349	B-2G	R483	B-1A	C129	A-2F	C451	B-2G
IC302	A-2G	R147	B-2F	R350	B-2G	R484	B-1A	C130	A-2F	C452	A-2G
IC303	B-2F	R148	B-2F	R351	B-2G	R485	B-1A	C131	A-2F	C453	A-2A
IC401	A-1B	R149	A-1F	R352	B-2G	R486	A-1A	C132	A-2F		
IC402	A-2F	R150	B-1F	R355	B-2F	R487	A-1A	C133	A-2F	X101	A-1E
IC403	A-2B	R151	A-1F	R356	B-2F	R488	A-1A	C134	B-2F	X102	A-1E
IC404	B-1A	R152	A-1F	R357	B-1F	R489	A-1A	C135	B-2F	X301	A-1G
IC405	B-2G	R153	A-1E	R358	A-2G	R490	A-1A	C136	B-2F		
		R154	A-1E	R401	A-2A	R491	A-1C	C137	A-2E	TP1	A-2C
Q101	A-1E	R155	A-1F	R402	A-2A	R492	A-1G	C138	A-1F	TP2	A-2D
Q102	A-1E	R156	A-1F	R403	B-2G	R493	B-1B	C139	A-1F	TP3	A-2E
Q401	B-2G	R157	A-1F	R404	B-2G	R494	B-1B	C140	A-1F		
Q402	A-1A	R158	A-1F	R405	B-1B	R495	B-1C	C141	A-1F	CN101	A-2B
Q403	A-1A	R159	A-1F	R406	B-1B			C142	A-1F	CN102	A-1E
Q404	A-1C	R160	A-1F	R407	B-1B	RA101	A-2E	C143	A-1F	CN103	A-1G
Q405	A-1C	R161	B-1F	R408	B-1B	RA102	B-1F	C144	A-1E	CN104	A-1C
Q406	A-1A	R164	B-1F	R409	B-1B	RA103	B-1F	C145	B-1F	CN105	A-1B
Q407	A-1C	R165	B-1G	R410	B-1B	RA104	B-1E	C146	B-1E	CN106	A-1A
Q408	A-1A	R166	B-1G	R411	A-1B	RA105	B-1E	C147	B-2E	CN107	A-1D
Q409	A-1A	R167	B-1G	R412	B-1B	RA106	B-1F	C148	A-2F	CN108	A-2A
Q410	B-1B	R168	B-1G	R413	A-1B	RA107	B-1E	C149	A-2F	CN109	A-1A
Q411	B-1B	R169	B-1F	R415	B-1B	RA401	B-1C	C150	A-2E		
Q412	B-1B	R170	B-1F	R416	B-1C	RA402	B-1C	C151	A-2E	K1	A-2C
		R171	B-1E	R417	B-1C	RA403	B-1A	C152	B-1F	K101	A-2E
D101	A-1E	R172	B-1E	R418	B-1C			C154	A-2F	K103	A-2B
D102	A-1F	R173	B-1E	R419	B-1C	C1	A-2C	C155	A-1E	K401	A-1B
D103	A-1F	R174	B-1E	R420	B-1B	C2	A-2C	C156	A-1E	K402	B-2G
D401	B-1C	R175	A-2F	R421	B-1C	C3	A-2D	C301	A-2G		
D402	B-1B	R176	A-1F	R422	B-1C	C4	A-2D	C302	A-1G	LC401	A-1B
D403	B-1B	R177	A-1E	R423	B-1C	C5	A-2C	C303	A-1G	LC402	A-2B
		R178	A-1E	R424	B-1B	C6	A-2D	C304	A-1G	LC403	A-2B
R1	A-2C	R179	A-1E	R425	A-1B	C7	A-2C	C305	A-2F	LC404	A-1B
R2	A-2C	R180	A-1E	R426	A-1B	C8	A-2C	C306	A-1G	LC405	A-2B
R3	A-2C	R181	B-1E	R427	A-1B	C9	A-2C	C307	A-1G		
R4	A-2D	R182	B-1F	R428	A-1B	C10	A-2C	C308	A-2G	L1	A-2C
R5	A-2D	R183	B-1F	R429	B-1B	C11	A-1D	C309	A-2F	L2	A-1C
R6	A-1D	R184	B-1F	R430	B-1B	C12	A-2D	C310	A-2G	L3	A-1C
R7	A-1D	R185	B-1E	R431	B-1B	C13	A-2C	C311	A-2G	L4	A-1D
R8	A-1D	R187	B-1E	R432	A-1B	C14	A-1C	C312	A-2G	L101	A-1E
R9	A-1D	R189	A-1E	R433	B-1G	C15	A-2D	C313	B-2F	L102	A-2C
R10	A-2D	R301	A-1G	R434	A-1G	C16	A-1D	C314	B-2F	L103	A-1F
R11	A-2D	R302	A-1G	R435	B-1G	C17	A-1D	C401	A-1A	L104	A-1F
R12	A-2D	R303	A-1G	R436	A-1G	C18	A-2D	C402	A-1B	L105	A-2E
R13	A-2D	R304	A-1G	R437	B-1G	C19	A-1D	C403	A-1B	L402	A-2E
R14	A-2D	R305	A-1G	R438	A-1G	C20	A-2D	C404	A-1B	L403	A-1C
R101	A-2E	R306	A-1G	R439	B-1G	C21	A-2D	C405	A-1B	L404	A-1C
R102	A-1E	R307	A-1G	R440	A-1G	C22	A-2E	C406	A-1B	L405	A-2G
R104	A-1E	R308	A-1G	R441	B-1G	C23	A-2D	C407	A-1B	L406	A-2G
R105	A-2E	R309	B-1G	R442	B-1G	C24	A-2D	C408	A-2B	L407	A-2G
R106	A-2E	R310	B-2G	R443	B-1G	C25	A-2D	C409	A-2B	L408	A-2G
R107	A-1E	R311	A-1G	R444	A-1F	C26	A-2D	C410	A-2B		
R108	A-1E	R312	B-1F	R445	B-1G	C27	A-2D	C411	A-2F	TL1	A-2E
R109	A-2E	R313	A-1F	R446	B-1G	C28	A-2D	C412	A-2F	TL2	A-1D
R110	A-1E	R314	A-1F	R447	B-1G	C29	A-2D	C413	A-2F	TL3	A-2D
R111	A-2E	R315	B-1F	R448	B-1G	C30	A-2D	C414	A-2F	TL4	A-2D
R112	A-2E	R316	B-1F	R449	B-1G	C31	A-2D	C415	A-2B	TL101	A-1F
R113	B-2F	R317	B-1F	R450	B-1G	C32	A-2D	C416	A-2B	TL102	A-2E
R114	A-2E	R318	B-2F	R451	B-1G	C33	A-2D	C417	A-2B	TL103	A-1G
R115	B-2F	R319	B-1F	R452	B-1G	C34	A-2C	C418	A-2B	TL104	A-2G
R116	B-1E	R320	A-1F	R453	B-1B	C35	A-1D	C419	A-1B	TL105	A-1G
R117	B-2E	R321	B-2F	R455	B-1B	C101	A-2E	C420	A-1B	TL106	A-1G
R118	A-1E	R322	B-2F	R456	A-1A	C102	A-2E	C421	A-1A	TL107	A-2G
R119	A-2E	R323	B-2F	R457	A-1A	C103	A-2E	C422	A-2E	TL108	A-1F
R120	B-1E	R324	B-2G	R458	A-1A	C104	A-2E	C423	A-2E	TL109	A-1F
R121	B-1E	R325	A-2F	R459	B-1A	C105	A-2E	C424	A-2C	TL110	A-1F
R122	A-1E	R326	B-2G	R460	B-1A	C106	A-1E	C425	A-2C	TL401	A-1B
R123	A-1E	R327	B-2G	R461	B-1C	C107	A-2E	C426	A-2C	TL402	A-1B
R124	A-1E	R328	B-2G	R462	A-1A	C108	A-2E	C427	A-2C	TL403	B-2G
R126	B-1F	R329	B-2F	R463	A-1A	C109	A-2E	C428	A-2G	TL404	B-2G
R127	B-2F	R330	B-2G	R464	A-1A	C110	A-2E	C429	A-2G	TL405	B-2G
R128	A-2E	R331	A-2G	R465	A-1C	C111	A-2F	C430	A-2A	TL406	B-2G
R129	A-2F	R332	B-2G	R466	A-1C	C112	A-2F	C432	A-2G	TL407	B-2G
R130	A-2F	R333	B-2G	R467	A-1C	C113	A-1F	C433	A-2G	TL408	B-1F
R131	A-2F	R334	B-2G	R468	A-1C	C114	A-2F	C434	A-2G	TL409	B-1F
R132	A-2F	R335	B-2G	R469	A-1A	C115	A-2F	C435	A-2G	TL410	B-1F
R133	A-2F	R336	A-2G	R470	B-1G	C116	A-2E	C436	A-2G		
R134	A-2F	R337	A-2G	R471	B-1G	C117	A-2E	C437	A-2G		
R135	A-2C	R338	A-2F	R472	B-1G	C118	A-1F	C438	A-1B		

4.18 MDA/DC CIRCUIT BOARD

– SIDE A –



– SIDE B –



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● **ADDRESS TABLE OF BOARD PARTS**

Each address may have an address error by one interval.

Side A-1C (Y axis / X axis)

IC11	B-2D	R120	B-2D	R328	A-3G	C142	B-2D	C422	A-3A		
IC12	B-2A	R121	B-2D	R329	B-2G	C143	B-2D	C423	A-2A		
IC21	B-2B	R122	B-2D	R330	B-2G	C144	B-2D	C424	A-3A		
IC22	B-1B	R123	B-2D	R331	B-2G	C145	B-2D	C425	A-3A		
IC23	B-1B	R124	A-3C	R332	B-2G	C146	B-1D	C426	A-3A		
IC31	B-2F	R125	A-3B	R333	B-2G	C147	B-1D	C427	A-2A		
IC32	B-3G	R126	B-1D	R334	B-2F	C148	B-3C				
IC41	B-2C	R127	B-1D	R335	A-3F	C149	A-3D	CN105	A-1B		
IC42	A-2A	R128	A-1D	R336	A-3F	C156	B-1A	CN108	A-2A		
IC43	A-3A	R129	A-3E	R337	B-3G	C157	B-1A	CN111	A-1F		
		R130	A-2E	R338	B-3G	C158	B-2A	CN112	A-3F		
Q11	A-2E	R131	B-1A	R339	B-3G	C159	B-2A	CN113	A-3C		
Q12	A-2E	R132	B-1A	R340	B-3G	C160	B-2A	CN114	A-3A		
Q13	A-1E	R133	B-2A	R341	B-2G	C201	B-2C	CN116	A-3B		
Q14	B-1A	R134	B-1A	R342	A-2F	C202	A-2C	CN117	A-1E		
Q15	B-2A	R135	B-2A	R343	A-2E	C203	B-1B	CN119	A-2G		
Q21	A-3B	R136	B-2A	R344	B-2G	C204	B-2B				
Q22	A-3B	R137	B-2A	R345	A-2F	C205	B-2B	K1	B-1F		
Q23	A-3B	R138	B-3A	R346	B-2F	C206	B-2B				
Q31	A-2F	R139	B-2A	R347	B-2F	C207	A-2B	LC11	A-3C		
Q32	A-2F	R201	B-2B	R348	B-2F	C208	B-2B				
Q33	A-2G	R202	B-2B	R351	B-2G	C209	B-2B	F1	A-1G		
Q34	A-2G	R203	B-2B	R352	B-3G	C210	B-2B				
Q35	A-3G	R204	B-2B	R353	B-3G	C211	B-3B	L21	A-2C		
Q36	A-2F	R205	B-2B	R401	B-2C	C212	B-3B	L31	A-1G		
Q37	B-3G	R206	B-2B	R402	B-2C	C213	B-3B	L32	A-1F		
Q41	A-1C	R207	B-2B	R403	B-2C	C214	B-3B	L33	A-2F		
Q42	A-3C	R208	B-3B	R404	B-1C	C215	B-3B	L34	A-2E		
Q43	A-1C	R209	B-2C	R405	B-1C	C216	B-3B	L35	A-3G		
Q44	A-2C	R210	B-2C	R406	B-2C	C217	B-1B	L36	A-3F		
Q45	A-2C	R211	B-2B	R407	B-2C	C218	B-2B	L41	A-1B		
Q46	A-3C	R212	B-2B	R408	B-2C	C219	B-1C	L42	A-1A		
Q51	B-2F	R213	B-1C	R409	B-2C	C220	B-2B	L43	A-1B		
Q52	B-2F	R214	B-1B	R410	A-2C	C221	B-1B	L44	A-2B		
Q53	B-2E	R215	B-1B	R411	A-2C	C301	A-1G	L45	A-2B		
Q54	B-2F	R216	B-1B	R412	A-2B	C302	A-1F				
Q55	B-2G	R217	B-3B	R413	A-2B	C303	B-2F	QA11	B-3E		
Q56	B-2G	R218	A-3B	R414	A-2B	C304	B-2F				
Q57	B-2F	R219	B-2B	R415	A-2C	C305	B-2F	TL31	B-3F		
Q58	B-2F	R220	B-2B	R416	A-2C	C306	B-2F	TL32	B-2F		
		R221	B-1B	R417	A-2B	C307	B-2F	TL33	B-3E		
D11	B-2E	R222	B-1B	R418	A-2B	C308	A-1F	TL34	B-1F		
D12	B-1A	R223	B-1B	R419	A-2B	C309	A-3F	TL35	A-3G		
D13	B-2A	R224	B-1B	R420	A-2C	C310	B-2G	TL36	A-3F		
D21	B-1C	R225	B-1B	R421	A-3C	C311	A-1F	TL37	B-2G		
D22	A-3B	R226	B-1B			C312	A-3F	TL41	A-1A		
D31	A-2F	R227	B-2A	C101	B-3D	C313	B-2F	TL42	A-2A		
D32	A-2E	R228	B-1A	C102	B-3D	C314	B-3G	TL43	A-2A		
D33	B-2F	R229	A-1D	C103	B-3D	C315	B-2G	TL44	A-3A		
D34	A-2G	R230	A-1D	C104	B-3D	C316	B-2G				
D35	B-2G	R301	B-2F	C105	A-3D	C317	B-3G				
D36	A-2F	R302	B-2F	C106	B-3D	C318	B-3G				
D37	B-3F	R303	B-2F	C107	B-3D	C319	A-2G				
D41	A-1C	R304	B-2F	C108	B-3D	C320	A-3G				
D42	A-2C	R305	B-2F	C109	B-3D	C321	A-2F				
		R306	B-2F	C120	B-3D	C322	A-3F				
R1	A-3G	R307	B-2F	C121	B-3E	C323	B-3G				
R2	A-3A	R308	A-3F	C122	B-3E	C401	B-2C				
R101	B-3D	R309	A-3F	C123	B-3E	C402	B-2C				
R102	B-3D	R310	B-2G	C124	B-3E	C403	B-2C				
R103	B-3D	R311	B-2G	C125	A-1E	C404	B-2C				
R104	B-3D	R312	B-2F	C126	B-3E	C405	B-2C				
R105	B-3D	R313	B-2E	C127	B-3E	C407	B-1C				
R106	A-3E	R314	A-3F	C128	B-3E	C408	B-2C				
R107	A-3E	R315	A-3F	C129	B-3E	C409	A-1C				
R108	A-3E	R316	B-2F	C130	A-2D	C410	A-1B				
R109	B-3E	R317	B-2F	C131	A-2E	C411	A-1B				
R110	B-3E	R318	B-2F	C132	A-2E	C412	A-1B				
R111	B-2E	R319	B-3G	C133	A-1E	C413	A-2B				
R112	B-2E	R320	B-2G	C134	B-1D	C414	A-1A				
R113	B-2A	R321	B-3G	C135	B-1D	C415	A-1A				
R114	B-1D	R322	B-3G	C136	B-1D	C416	A-2C				
R115	B-1D	R323	B-2G	C137	B-1D	C417	A-2B				
R116	B-1D	R324	B-2G	C138	B-1D	C418	A-2B				
R117	B-2D	R325	A-3G	C139	A-1D	C419	A-2B				
R118	B-2D	R326	A-3G	C140	A-2D	C420	A-2B				
R119	B-2D	R327	A-2G	C141	B-2D	C421	A-3A				

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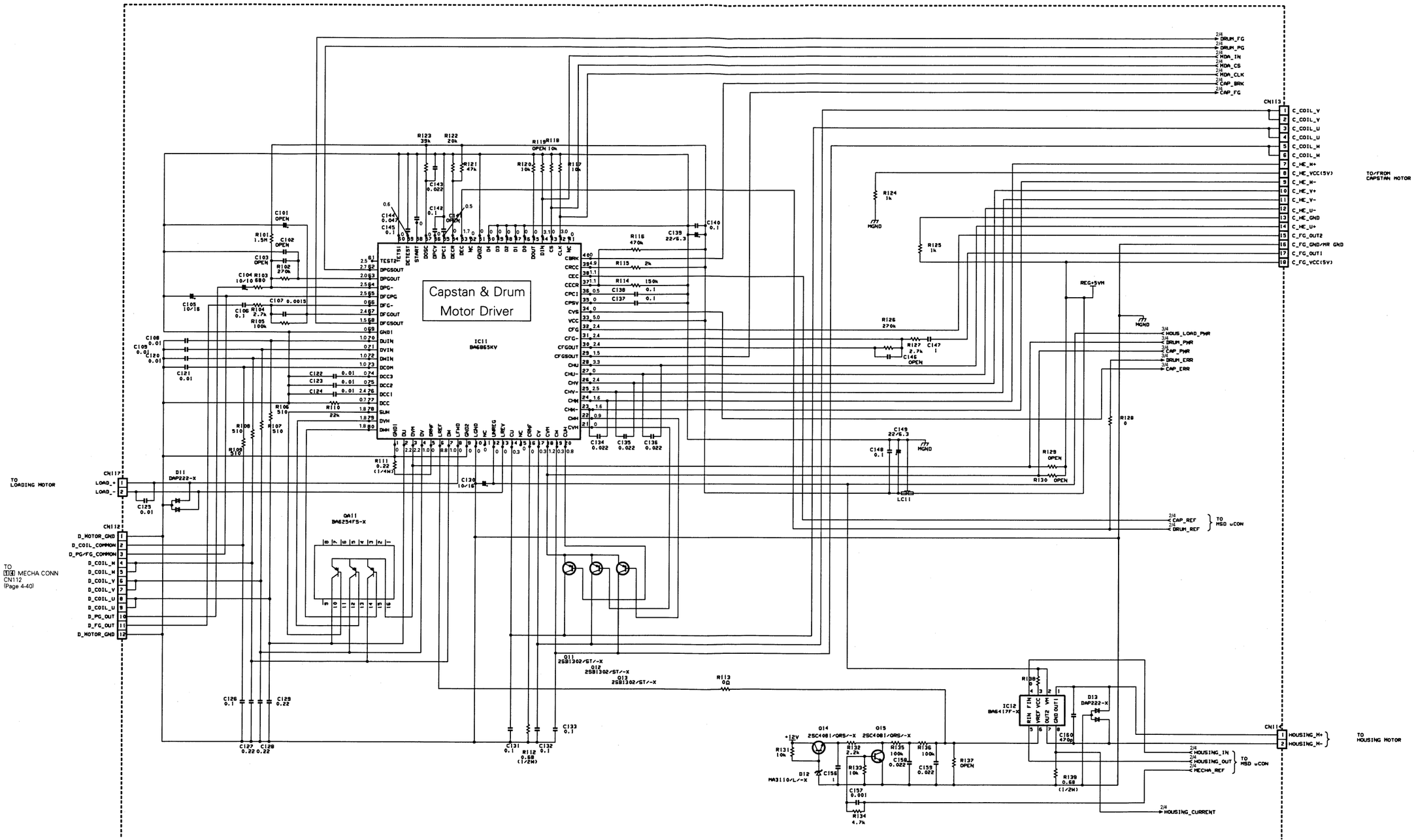
4.19 MDA/DC BOARD SCHEMATIC DIAGRAM 12 (1/4)



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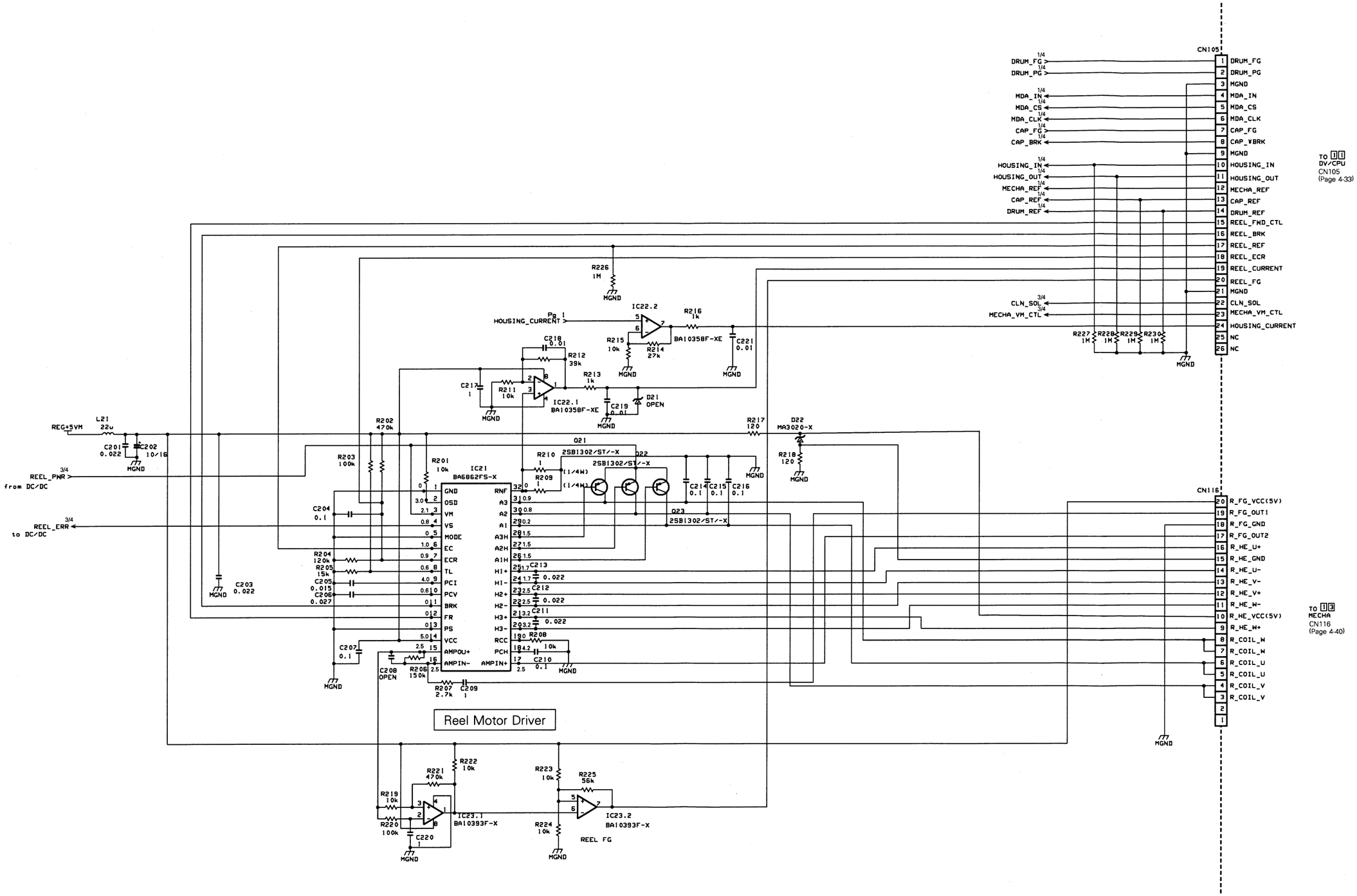
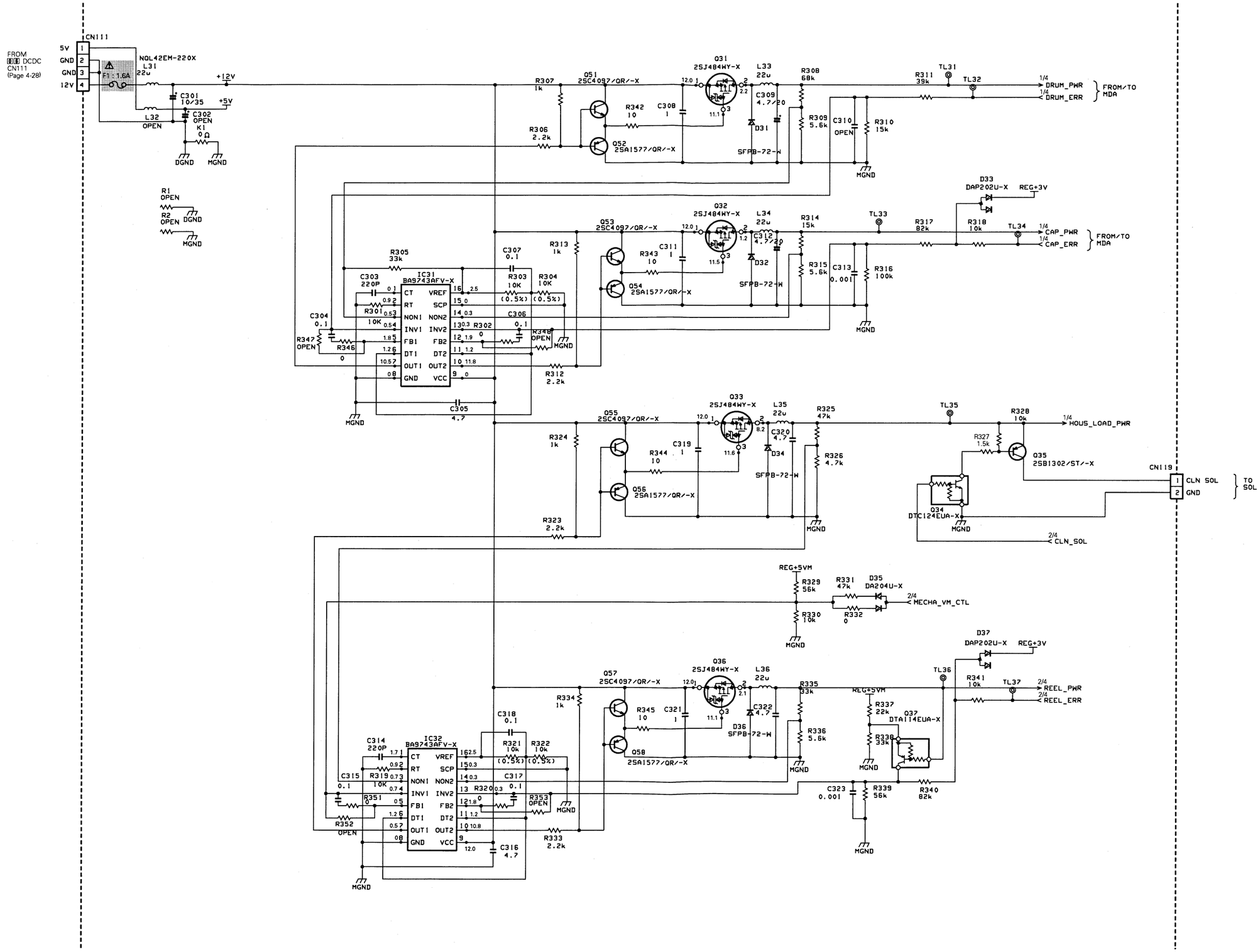
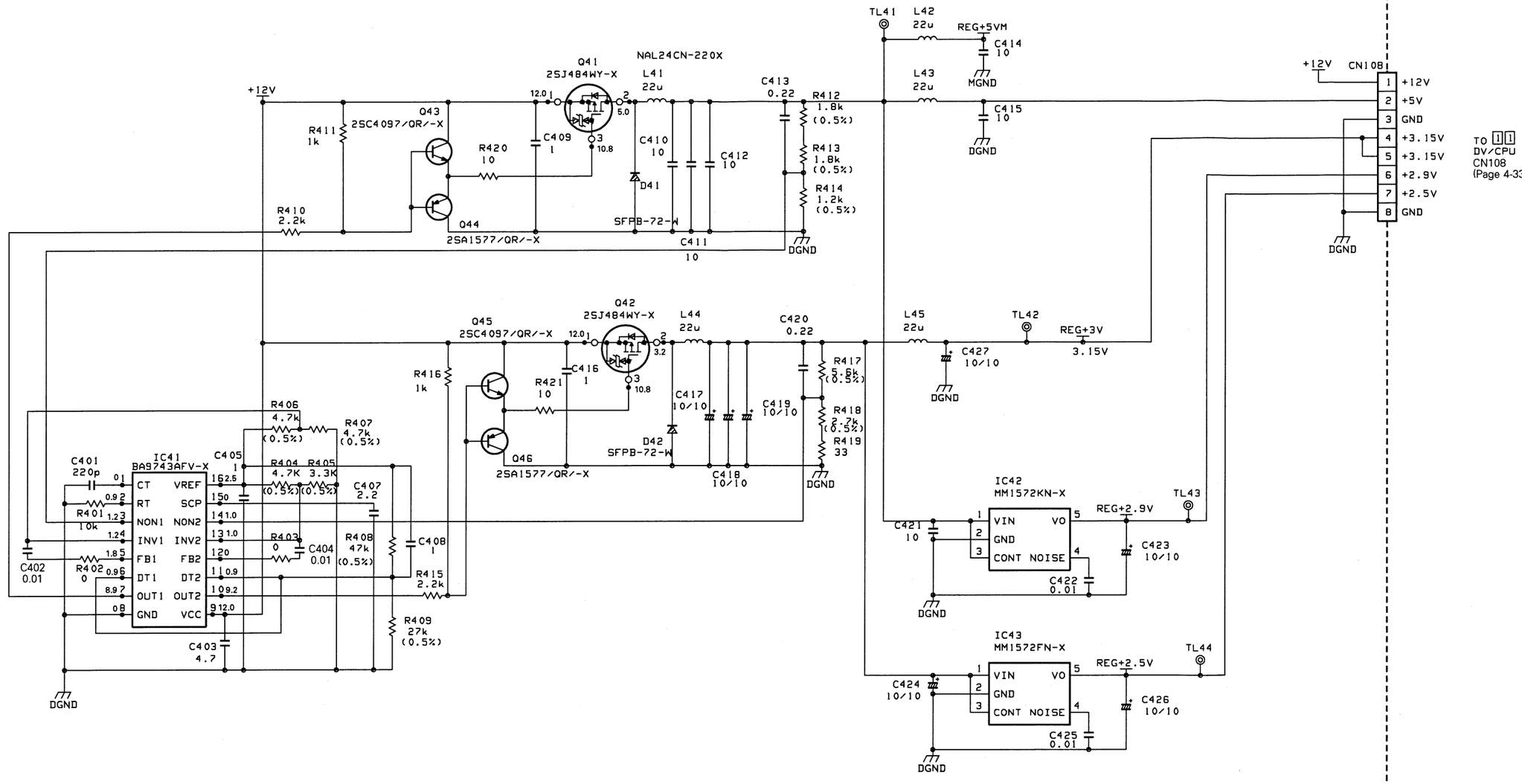
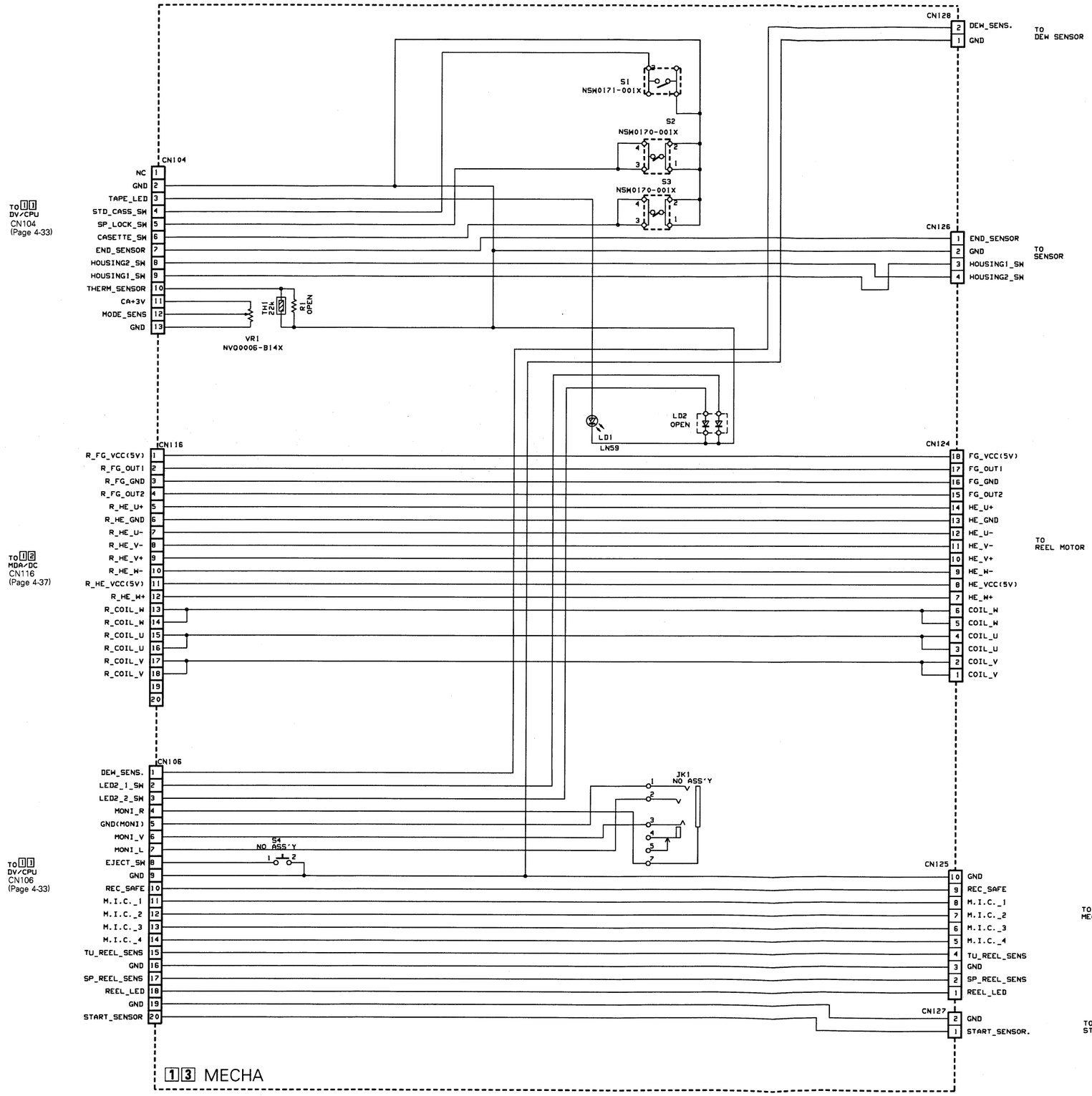


– MDA/DC BOARD SCHEMATIC DIAGRAM 12 (3/4) –

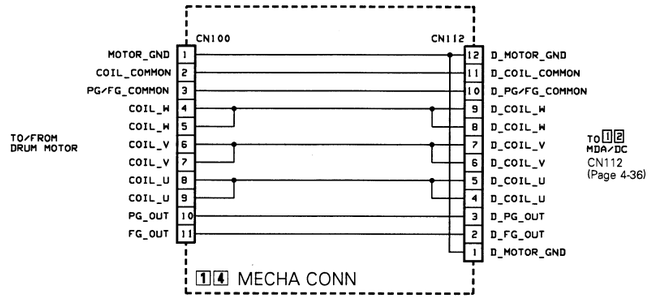



+12V
Q41
2SJ484WY-X
NAL24CN-220X
L41
22u
C413
0.22
R412
1.8k
(0.5%)
TL41
L42
22u
REG+5VM
C414
10
MGND
L43
22u
C415
10
DGND
R411
1k
Q43
2SC4097/QR/-X
R420
10
C409
1
C410
10
C412
10
D41
SFPB-72-W
R413
1.8k
(0.5%)
R414
1.2k
(0.5%)
R410
2.2k
Q44
2SA1577/QR/-X
C411
10
DGND
+12V
CN108
1 +12V
2 +5V
3 GND
4 +3.15V
5 +3.15V
6 +2.9V
7 +2.5V
8 GND
DGND
TO 11
DV/CPU
CN108
(Page 4-33)
Q42
2SJ484WY-X
Q45
2SC4097/QR/-X
L44
22u
C420
0.22
L45
22u
TL42
REG+3V
3.15V
C427
10/10
DGND
R416
1k
C416
1
R421
10
C417
10/10
C419
10/10
R417
5.6k
(0.5%)
R418
2.7k
(0.5%)
R419
33
D42
SFPB-72-W
Q46
2SA1577/QR/-X
C418
10/10
DGND
R406
4.7k
(0.5%)
R407
4.7k
(0.5%)
C401
220p
IC41
BA9743AFV-X
CT
RT
NON1
INV1
FB1
DT1
OUT1
GND
VREF
SCP
NON2
INV2
FB2
DT2
OUT2
VCC
C405
1
R404
4.7K
(0.5%)
R405
3.3K
(0.5%)
C407
2.2
R401
10k
R403
0
C404
0.01
R408
47k
(0.5%)
C408
1
C402
0.01
R402
0
R415
2.2k
R409
27k
(0.5%)
C403
4.7
DGND
IC42
MM1572KN-X
VIN
GND
CONT
NOISE
VO
REG+2.9V
TL43
C421
10
C423
10/10
C422
0.01
DGND
IC43
MM1572FN-X
VIN
GND
CONT
NOISE
VO
REG+2.5V
TL44
C424
10/10
C426
10/10
C425
0.01
DGND
12 MDA/DC

4.20 MECHA 13, MECHA CONN 14 BOARD SCHEMATIC DIAGRAMS



— MECHA CONN —

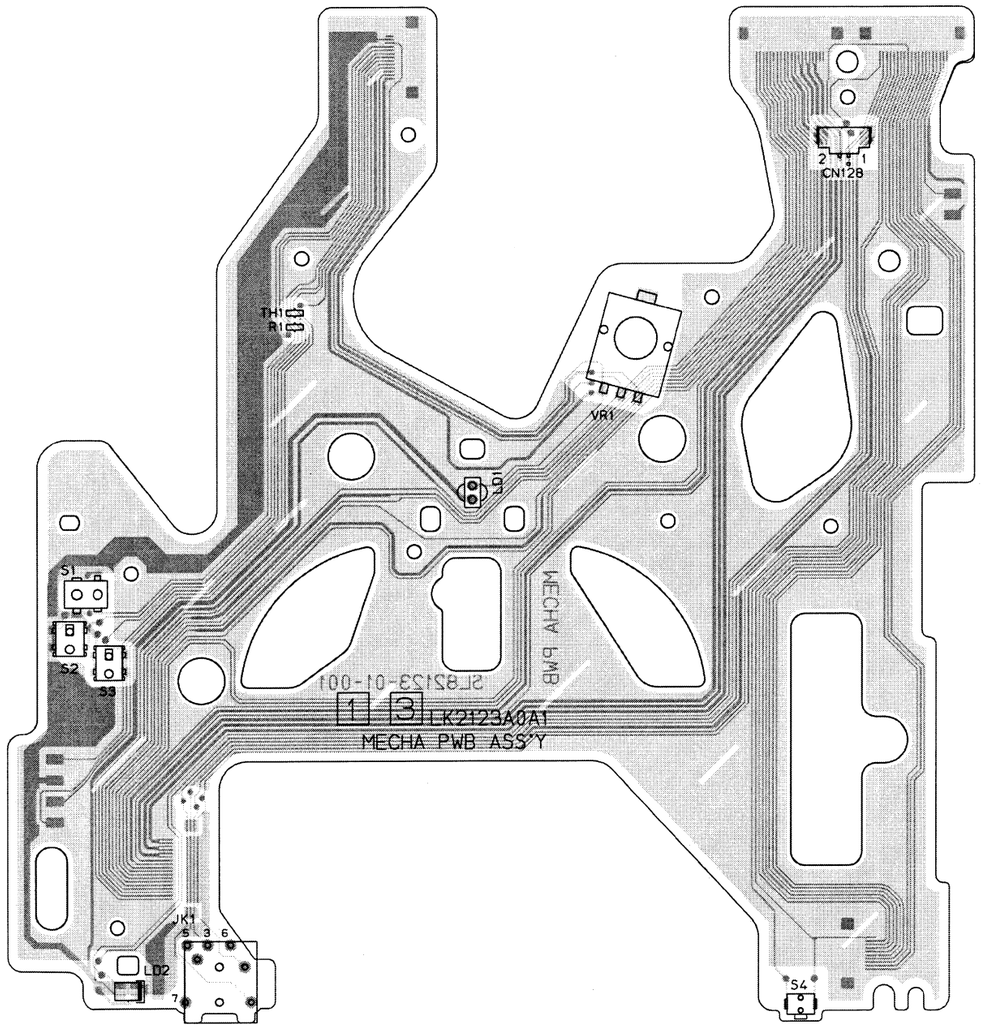


4-40

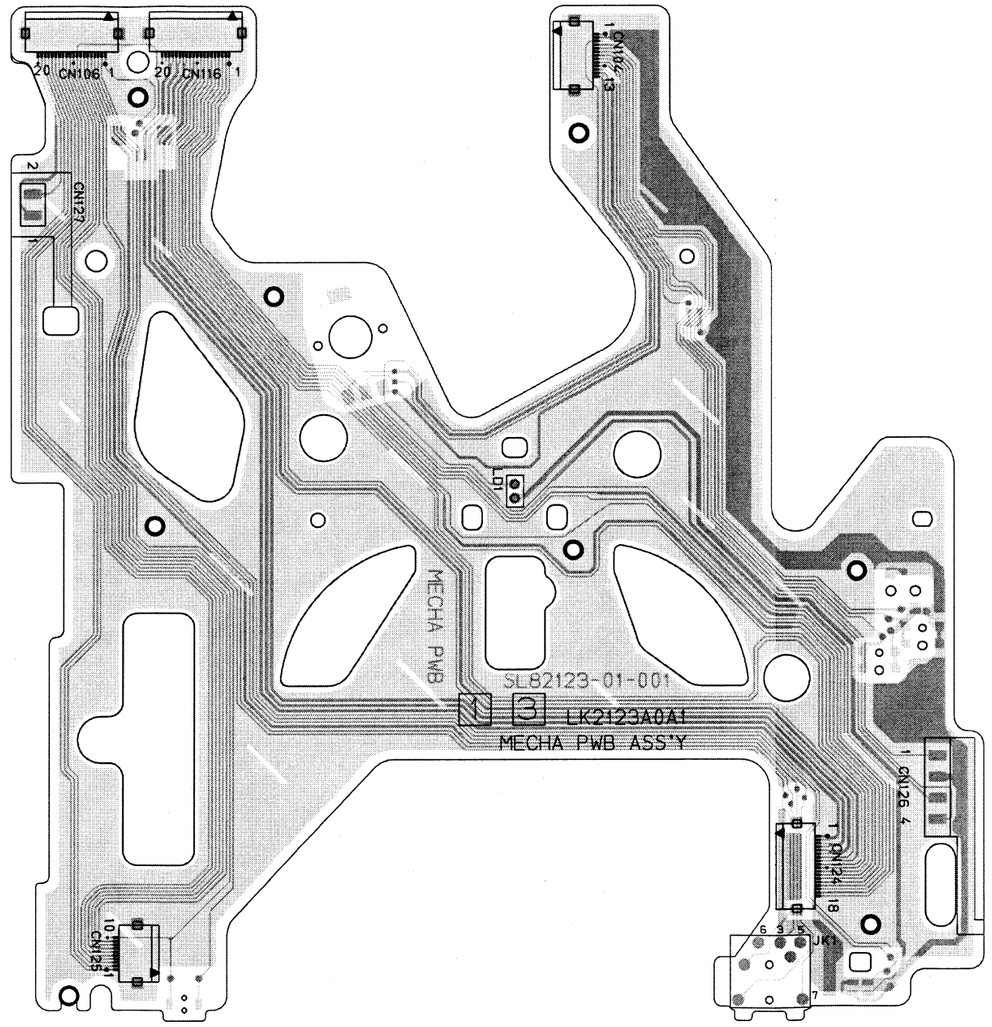
4.21 MECHA, MECHA CONN CIRCUIT BOARDS

– MECHA CIRCUIT BOARD –

– SIDE A –

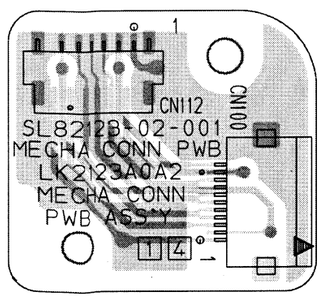


– SIDE B –



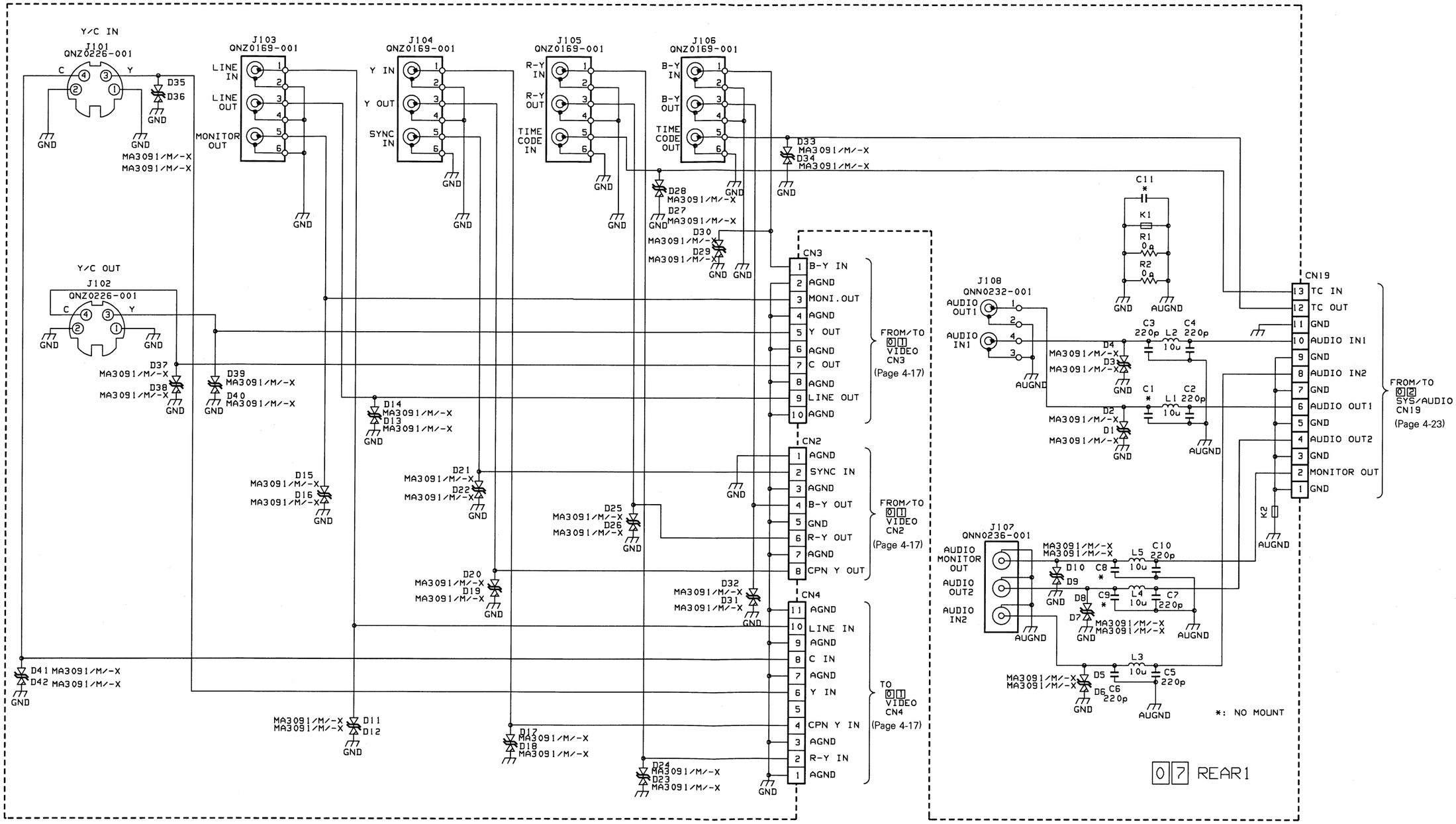
– MECHA CONN CIRCUIT BOARD –

– SIDE A –



4-41

4.22 REAR1 BOARD SCHEMATIC DIAGRAM 07

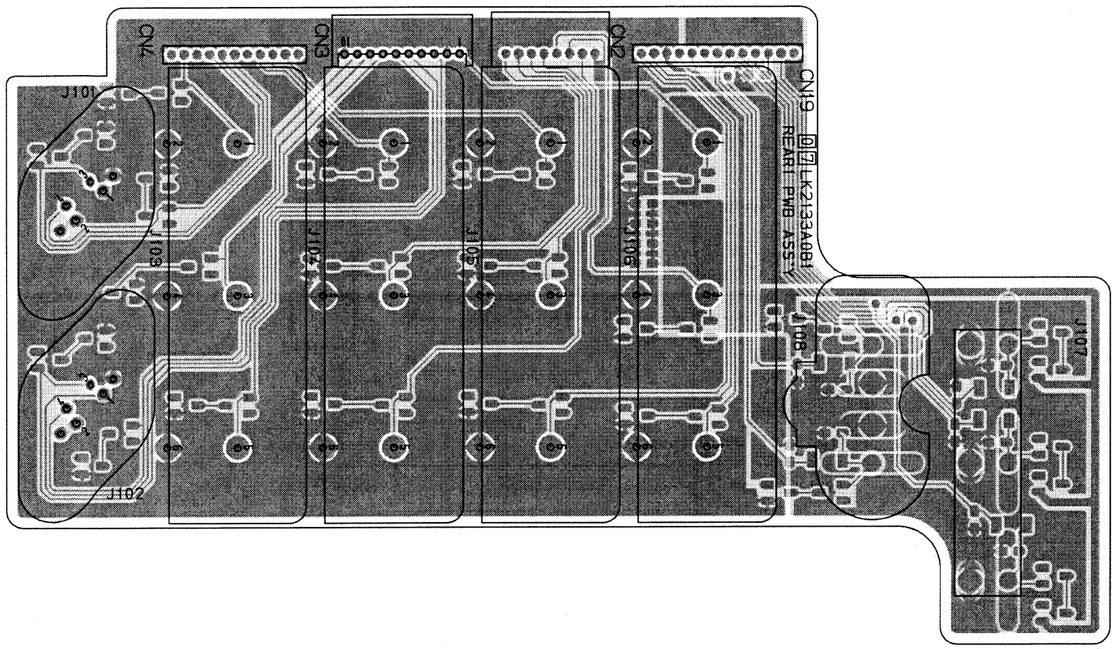


SL92287

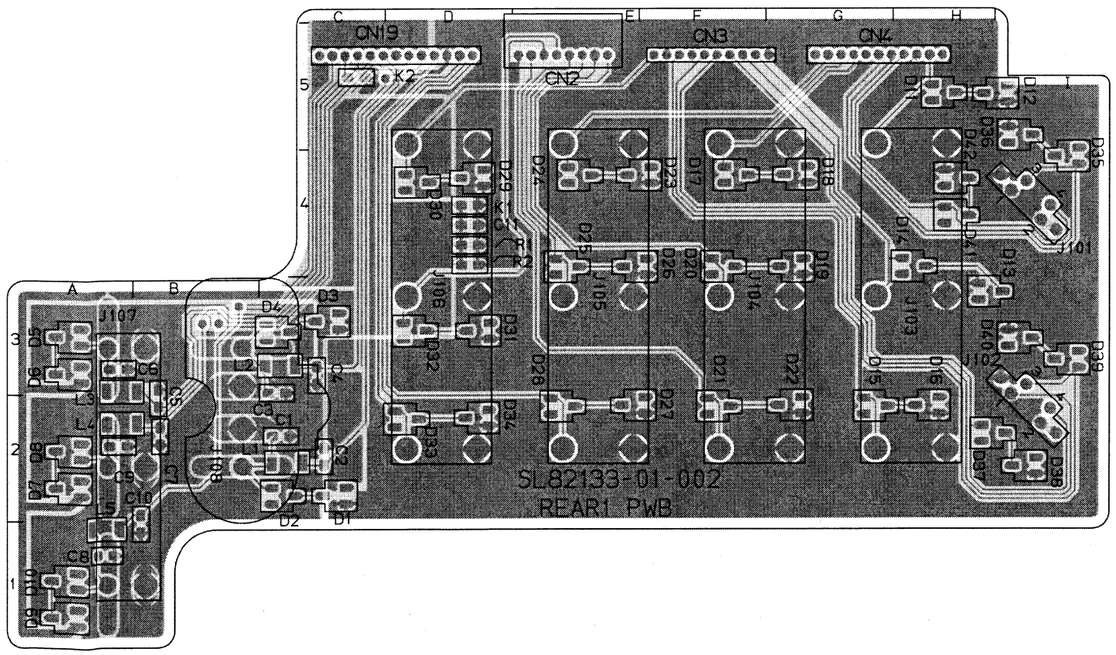
4.23 REAR1, MBLK CIRCUIT BOARDS

– RAER1 CIRCUIT BOARD –

– SIDE A –

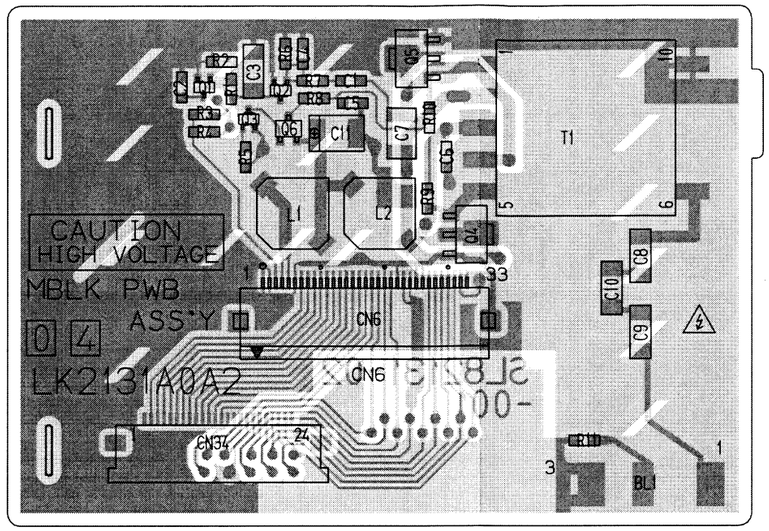


– SIDE B –

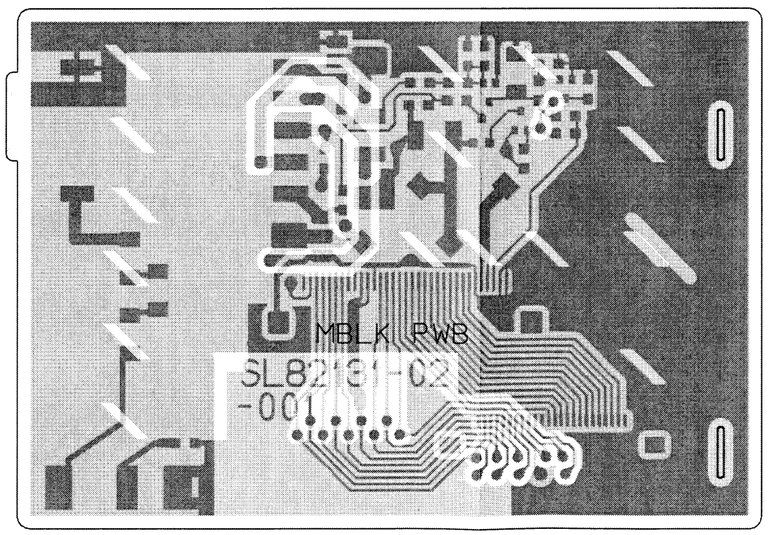


– MBLK CIRCUIT BOARD –

– SIDE A –



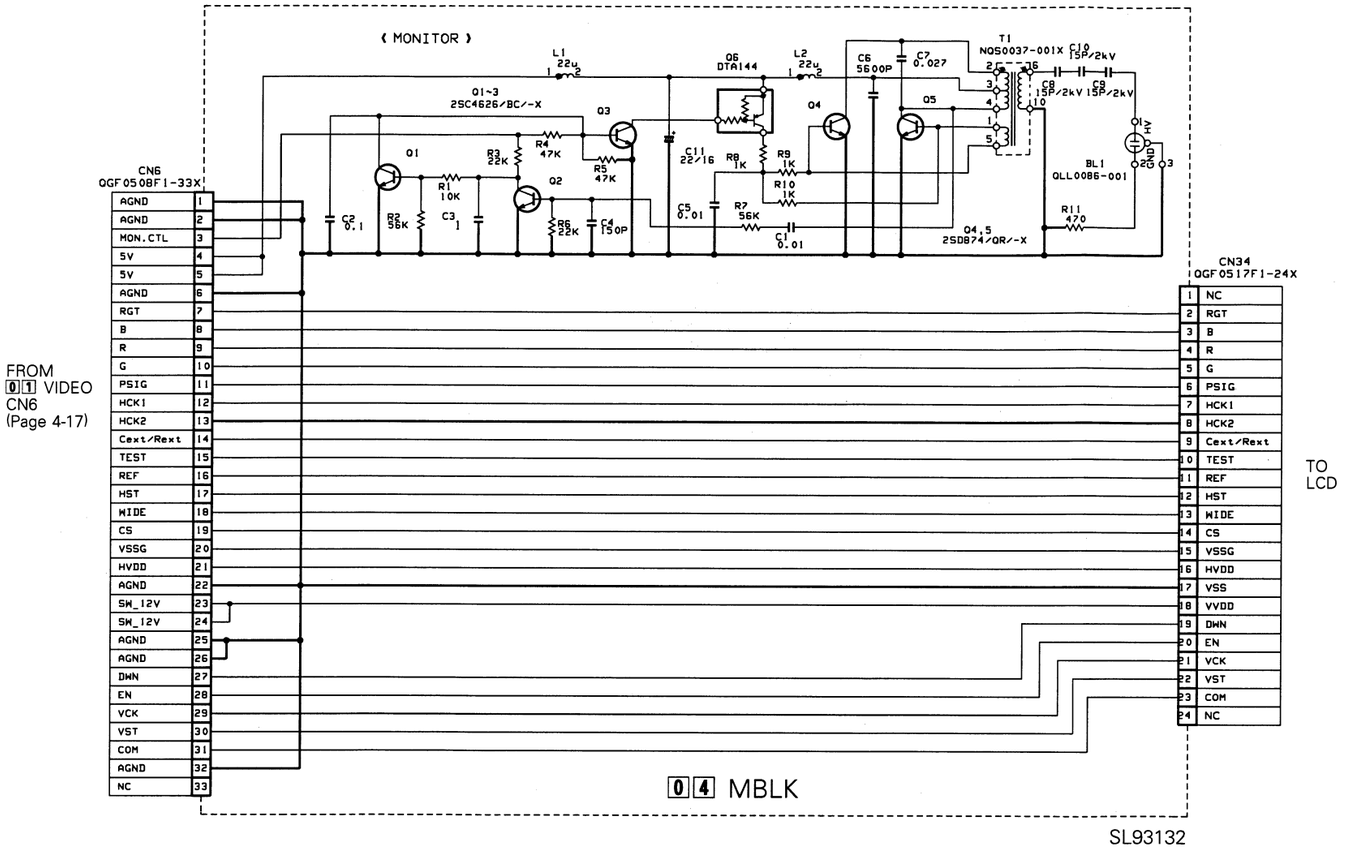
– SIDE B –



4-43

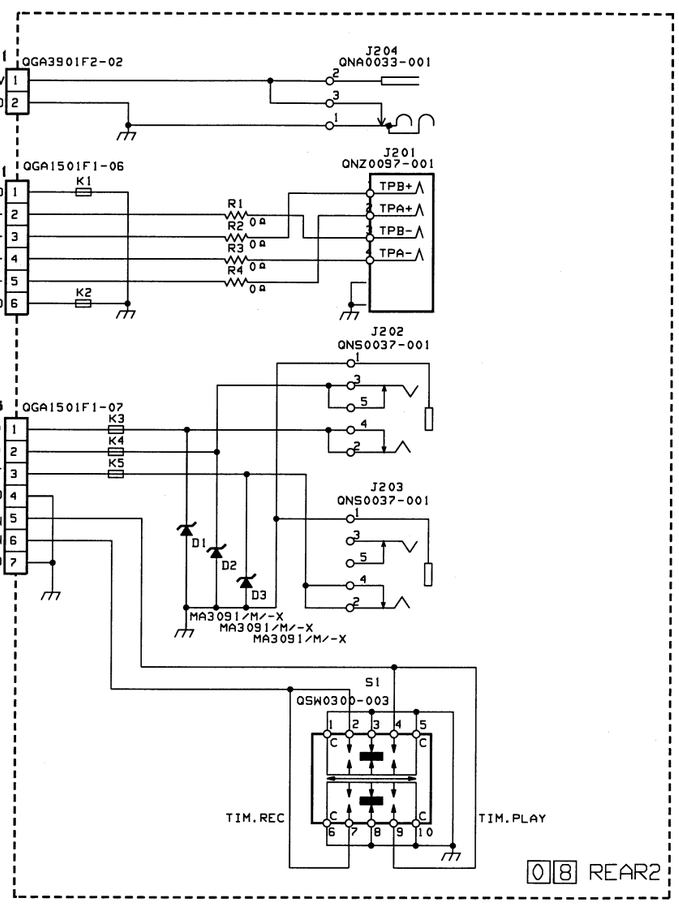
4.24 MBLK[0][4], REAR2 [0][8] BOARD SCHEMATIC DIAGRAMS

– MBLK –



SL93132

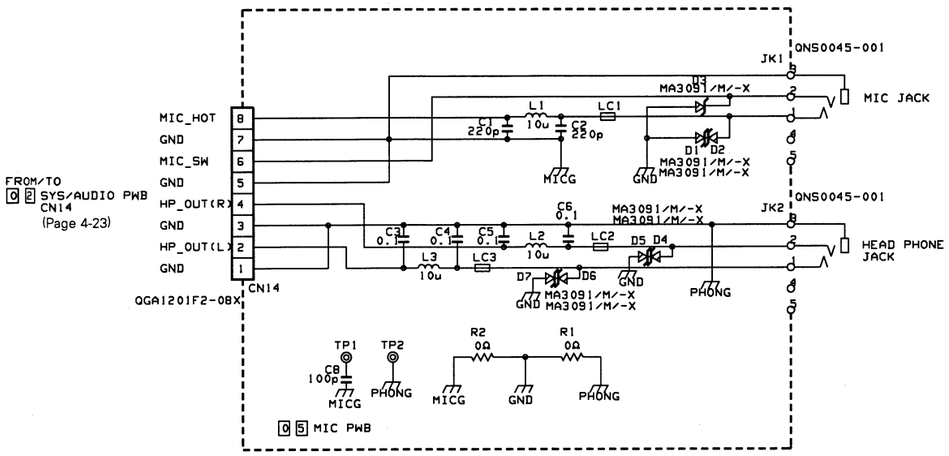
– REAR2 –



SL94041

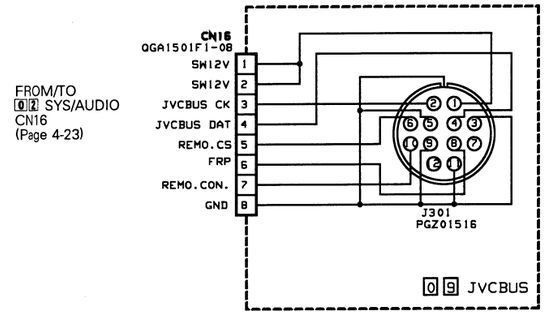
4.25 MIC 05, JVCBUS 09, SLOT MOTHER 10, RS422 21 BOARD SCHEMATIC DIAGRAMS

– MIC –



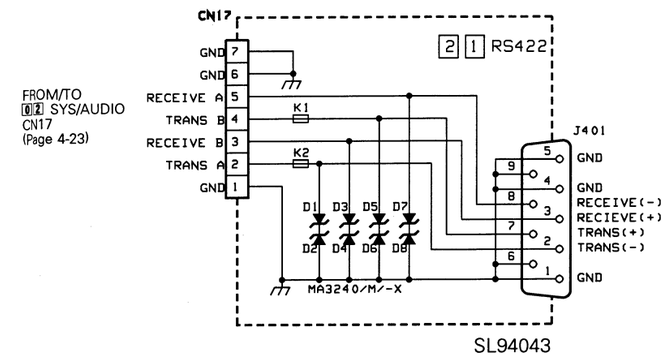
SL93131

– JVCBUS –



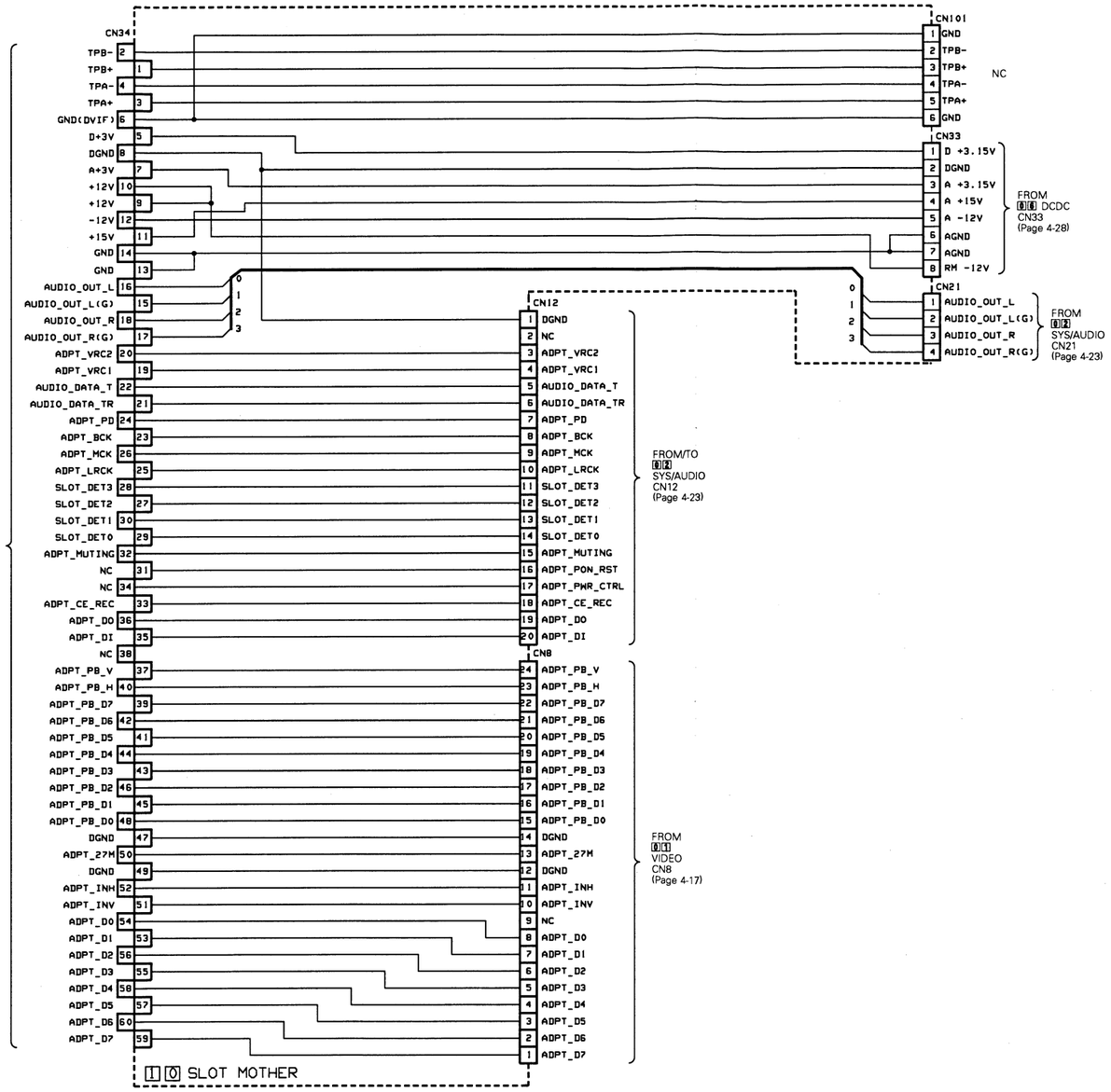
SL94042

– RS422 –



SL94043

– SLOT MOTHER –



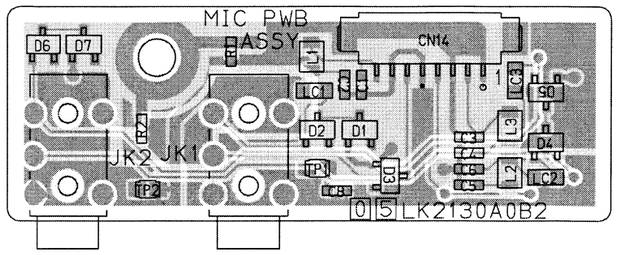
SL92288

4-45

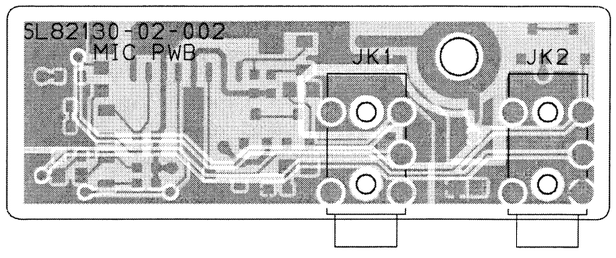
4.26 MIC, REAR2, JVCBUS, SLOT MOTHER, RS422 CIRCUIT BOARDS

– MIC –

– SIDE A –

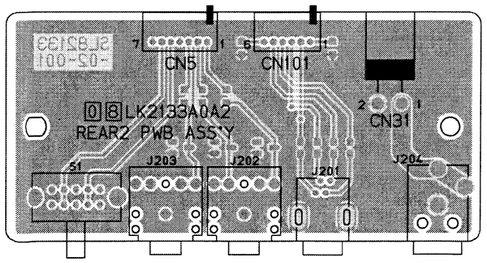


– SIDE B –

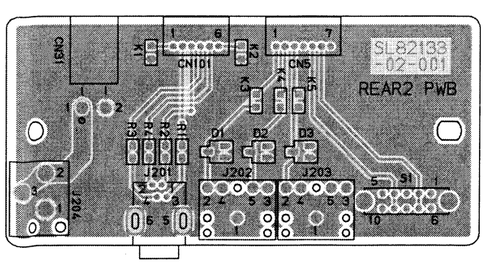


– REAR2 –

– SIDE A –

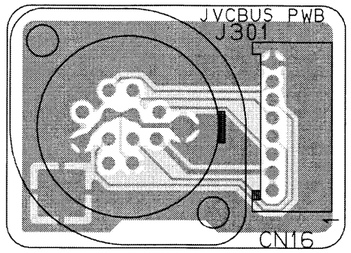


– SIDE B –

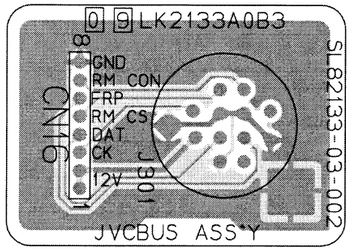


– JVCBUS –

– SIDE A –

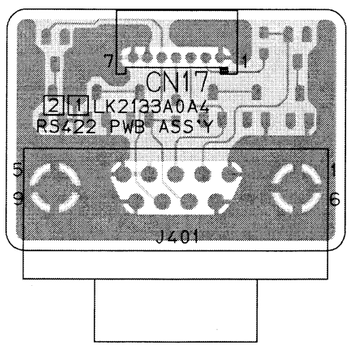


– SIDE B –

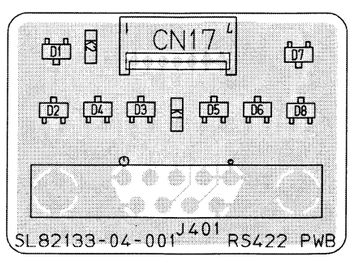


– RS422 –

– SIDE A –

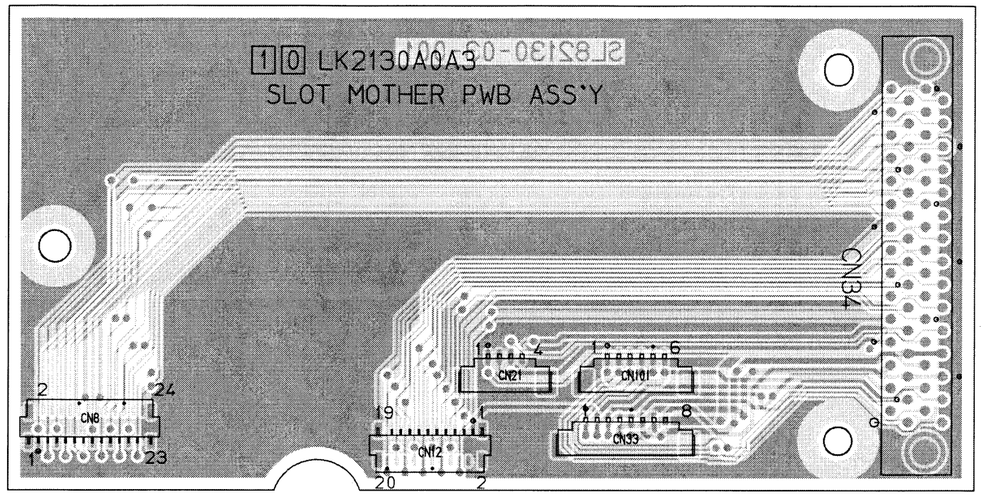


– SIDE B –

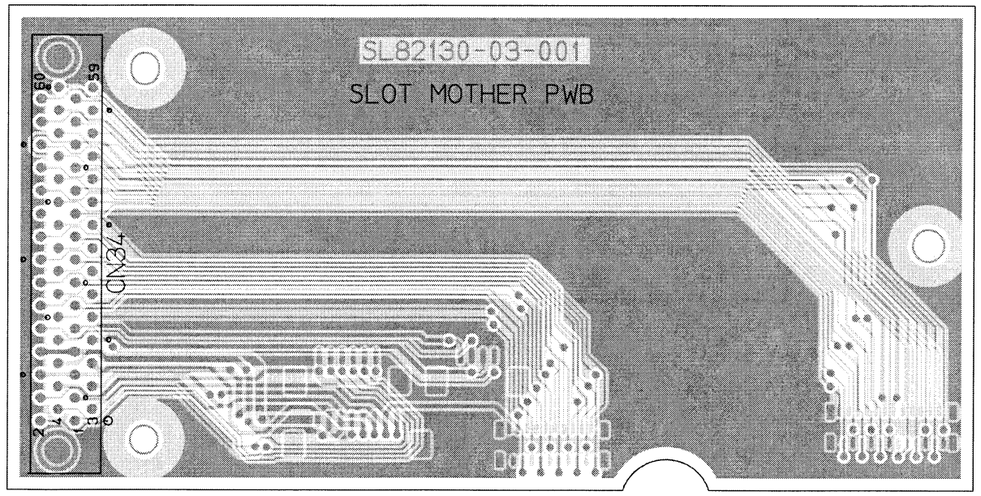


– SLOT MOTHER –

– SIDE A –



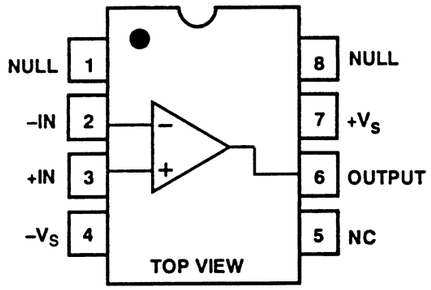
– SIDE B –



4-46

4.27 BLOCK DIAGRAMS of IC'S

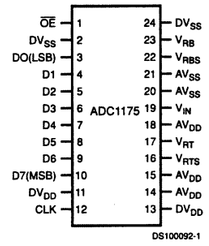
■ AD817AR-X [ANALOG DEVICES]
(Hi-Speed Low Power Op.Amp)



NC = NOT CONNECTED

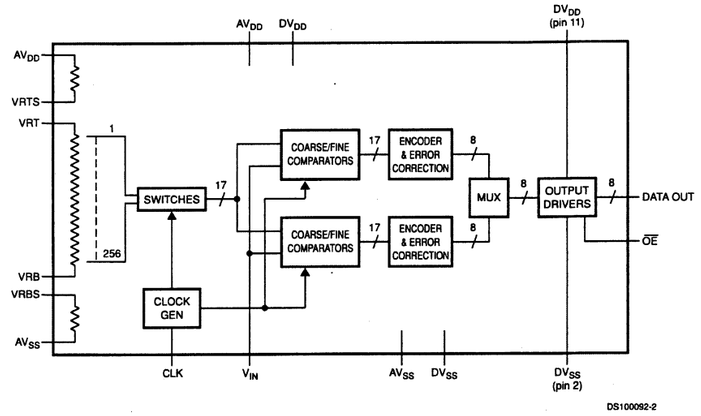
■ ADC1175CIJM-X [NATIONAL SEMICONDUCTOR]
(8 Bit,20MHz,60mW A/D Converter)

ADC1175 Pin Configuration



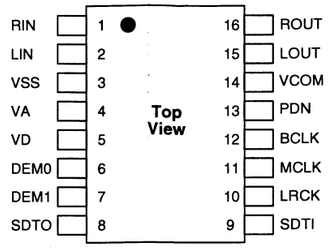
(Top View)

Block Diagram



■ AK4552VT-X [ASAHI KASEI]
(Degital Audio A/D & D/A Converter)

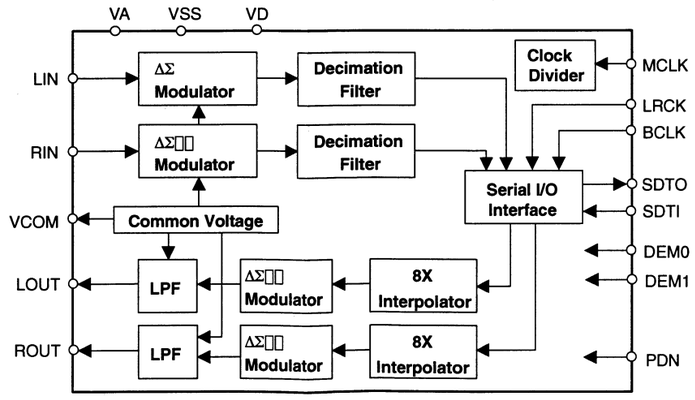
Pin Layout



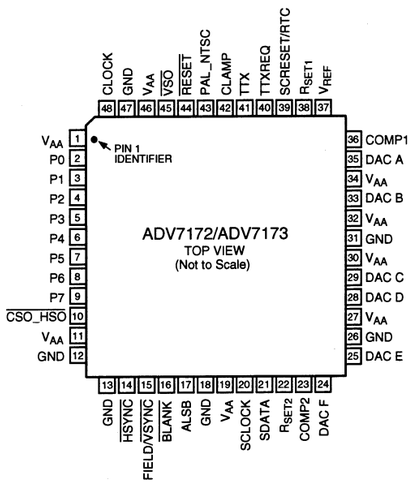
Pin/Function

No.	Pin Name	I/O	Function
1	RIN	I	Rch Analog Input Pin
2	LIN	I	Lch Analog Input Pin
3	VSS	-	Ground Pin
4	VA	-	Analog Power Supply Pin
5	VD	-	Digital Power Supply Pin
6	DEM0	I	De-emphasis Control Pin
7	DEM1	I	De-emphasis Control Pin
8	SDTO	O	Audio Serial Data Output Pin
9	SDTI	I	Audio Serial Data Input Pin
10	LRCK	I	Input/Output Channel Clock Pin
11	MCLK	I	Master Clock Input Pin
12	BCLK	I	Audio Serial Data Clock Pin
13	PDN	I	Power-Down & Reset Mode Pin "L": Power-down and Reset, "H": Normal operation
14	VCOM	O	Common Voltage Output Pin, 0.45 x VA
15	LOUT	O	Lch Analog Output Pin
16	ROUT	O	Rch Analog Output Pin

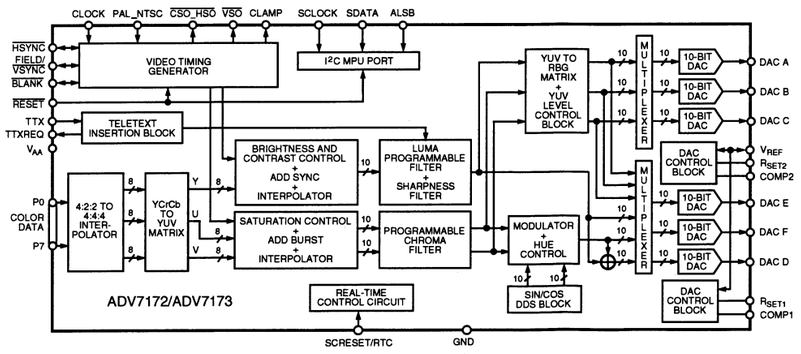
Block Diagram



■ ADV7172KST [ANALOG DEVICES]
(Digital PAL/NTSC Video Encoder with Six DACs(10 Bits))



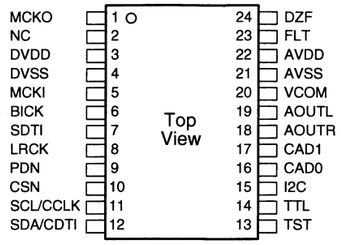
FUNCTIONAL BLOCK DIAGRAM



4-47

■ AK4363VF-X [ASAHI KASEI]
(Stereo CMOS D/A Converter and Phase Locked Loop)

Pin Layout

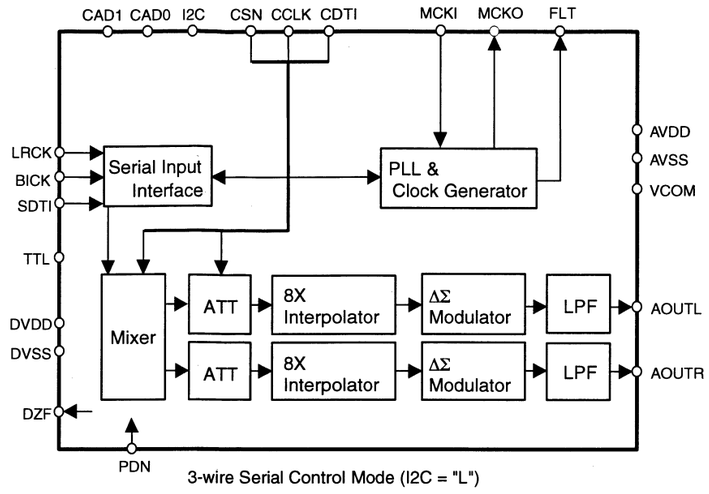


Pin/Function

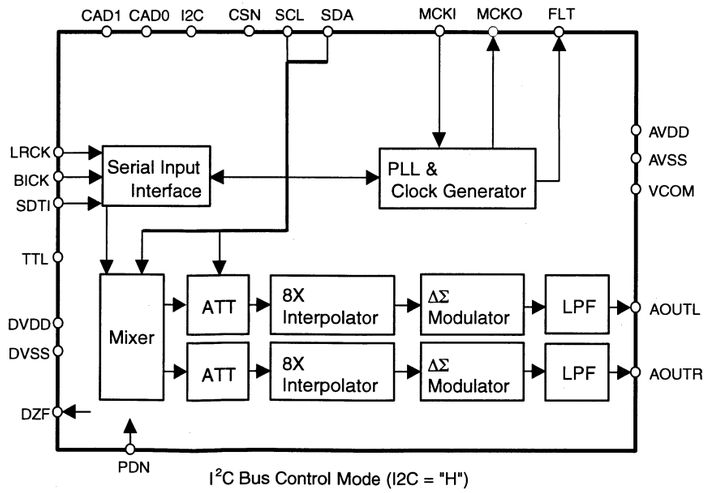
No.	Pin Name	I/O	Description
1	MCKO	O	Master Clock Output Pin EXT = "0" : System clock is output from PLL circuit (PLL mode), EXT = "1" : Same frequency as MCKI is output (External mode)
2	NC	-	No Connect Nothing should be connected externally to this pin.
3	DVDD	-	Digital Power Supply Pin, +2.7– +5.5V
4	DVSS	-	Digital Ground Pin, 0V
5	MCKI	I	System Clock Input Pin EXT = "0" : 27MHz (PLL mode), EXT = "1" : Other frequency (External mode)
6	BICK	I	Serial Data Clock Pin
7	SDTI	I	Serial Data Input Pin
8	LRCK	I	Serial Input Channel Clock Pin
9	PDN	I	Power-Down Pin When "L", the circuit is in power-down mode. The AK4363 should always be reset upon power-up.
10	CSN	I	Chip Select Pin at 3-wire Serial control mode This pin should be connected to DVDD at I^2C Bus control mode.
11	SCL	I	Control Clock Pin at I^2C bus control mode
	CCLK	I	Control Clock Pin at 3-wire serial control mode
12	SDA	I/O	Control Data Input/Output Pin at I^2C Bus control mode
	CDTI	I	Control Data Input Pin at 3-wire serial control mode
13	TST	I	Test pin This pin should be connected to DVSS.
14	TTL	I	Digital Input Level Select Pin "L" : CMOS, "H" : TTL
15	I2C	I	Control Mode Select Pin "L" : 3-wire Serial, "H" : I^2C Bus
16	CAD0	I	Chip Address Select 0 Pin
17	CAD1	I	Chip Address Select 1 Pin
18	AOUTR	O	Rch Analog Output Pin
19	AOUTL	O	Lch Analog Output Pin
20	VCOM	O	Common Voltage Output Pin, AVDD/2 Used for analog common voltage. Large external capacitor is used to reduce power supply noise.
21	AVSS	-	Analog Ground Pin
22	AVDD	-	Analog Power Supply Pin
23	FLT	O	Output Pin for Loop Filter of PLL Circuit This pin should be connected to AVSS with one resister and one capacitor in series. (See"SYSTEM DESIGN".)
24	DZF	O	Zero Input Detect Pin When SDTI follows a total 8192 LRCK cycles with "0" input data or RSTN = "0", this pin goes to "H".

Note: No input pins should be left floating.

Block Diagram

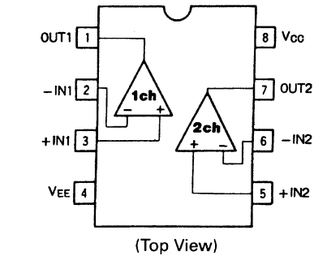


3-wire Serial Control Mode (I2C = "L")

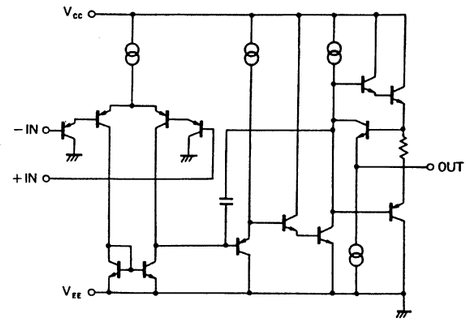


I^2C Bus Control Mode (I2C = "H")

■ BA10358F-XE [ROHM]
(Dual Ground Sense Op.Amp)

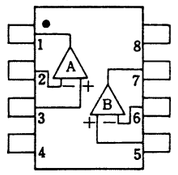


(Top View)



■ BA10393F-XE [ROHM]
(Dual Comparator)

(Top View)



Pin

1. A OUTPUT
2. A–INPUT
3. A+INPUT
4. V⁻
5. B+INPUT
6. B–INPUT
7. B OUTPUT
8. V⁺

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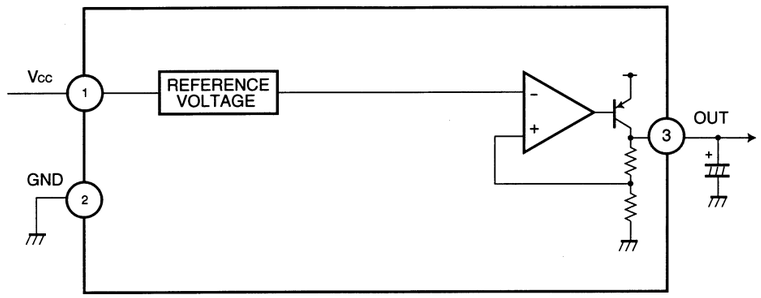
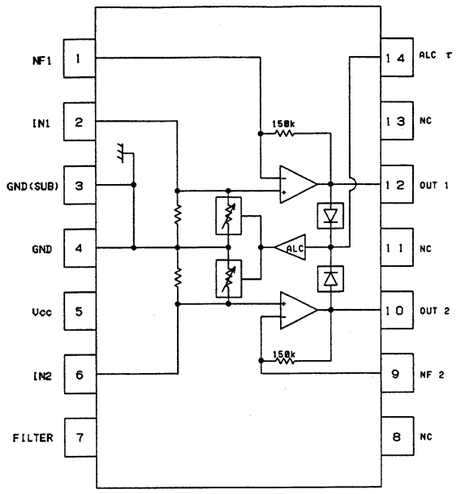
■ BA033FP-X [ROHM]
(Low Saturation Voltage Type 3-pin Regulator (3.3V))

Block diagram

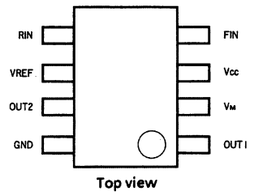


■ BA3314F-X [ROHM]
(Dual Pre-Amp. for Audio Signal)

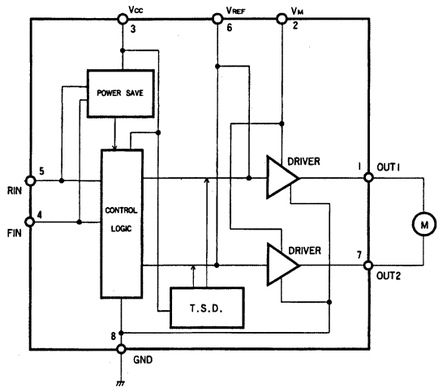


(Top View)

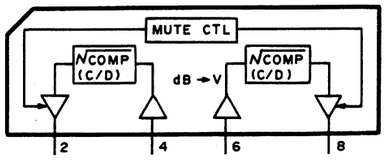
■ BA6417F-X [ROHM]
(Reversible Motor Driver)



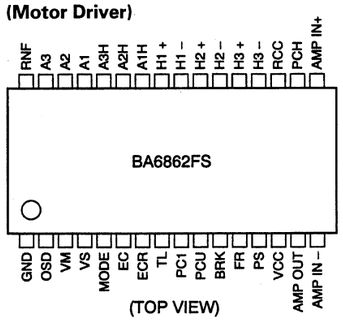
Top view



■ BA6138F-X [ROHM]
(1/2 square-law compression amplifiers)

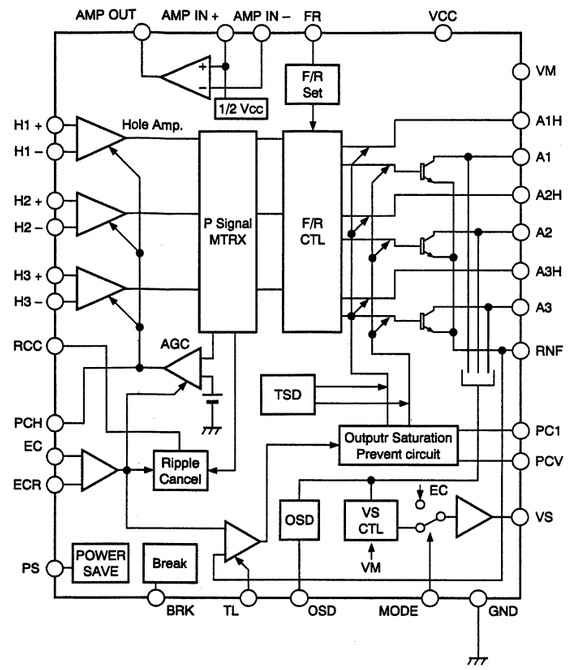


■ BA6862FS-X [ROHM]
(Motor Driver)



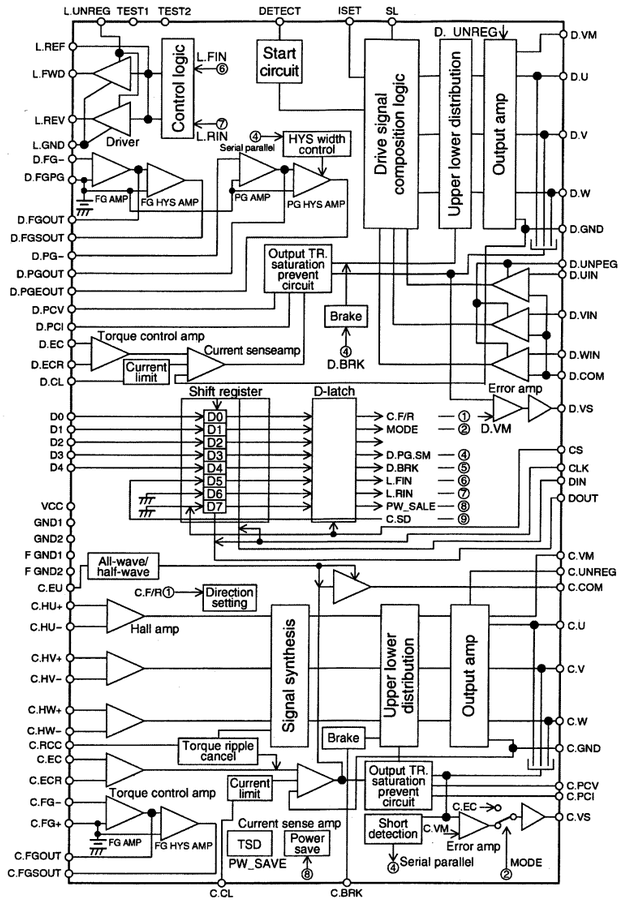
(TOP VIEW)

Pin No.	Symbol	Function
1	GND	GND
2	OSD	Output detect for short circuit
3	VM	Power source for motor drive
4	VS	Control for motor drive
5	MODE	Current/Voltage switching
6	EC	Torque control
7	ECR	Torque reference
8	TL	Torque limited
9	PCI	Output saturation prevent level (low level)
10	PCV	Output saturation prevent level (high level)
11	BRK	Break input H : Break L : Movement
12	FR	Foward/Reverse CTL input
13	PS	Power save H : Stand-by L : Movement
14	VCC	
15	AMP OUT	Amplifire output
16	AMP IN –	Amplifire input (–)
17	AMP IN +	Amplifire input (+)
18	PCH	Hole amp, AGC phase compareter
19	RCC	Ripple cancel
20	H3 –	Hole signal input
21	H3 +	Hole signal input
22	H2 –	Hole signal input
23	H2 +	Hole signal input
24	H1 –	Hole signal input
25	H1 +	Hole signal input
26	A1H	Pre motor drive output
27	A2H	Pre motor drive output
28	A3H	Pre motor drive output
29	A1	Motor drive output
30	A2	Motor drive output
31	A3	Motor drive output
32	RNF	GND for motor drive



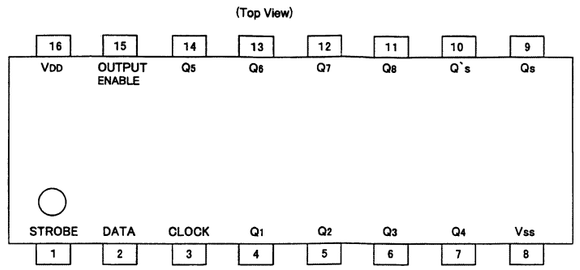
4-49

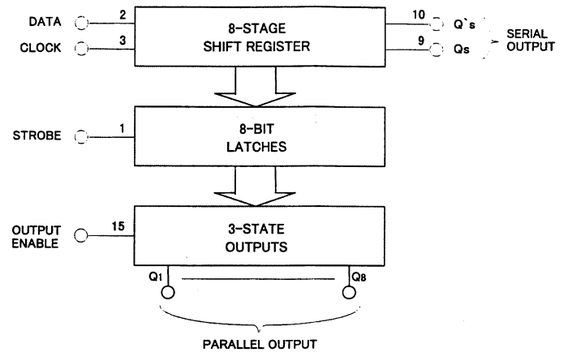
■ BA6865KV [ROHM]
(Motor Driver Controller)



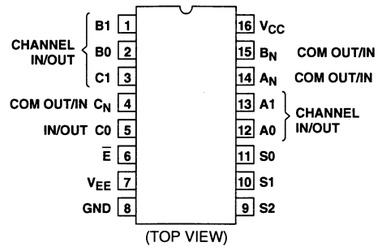
■ BU4094BCFV-X [ROHM]
(8-Stage Shift/Store Register)

(Top View)





■ CD74HC4053PW-X [TEXAS INSTRUMENTS]
(Analog Multiplexers/Demultiplexers)

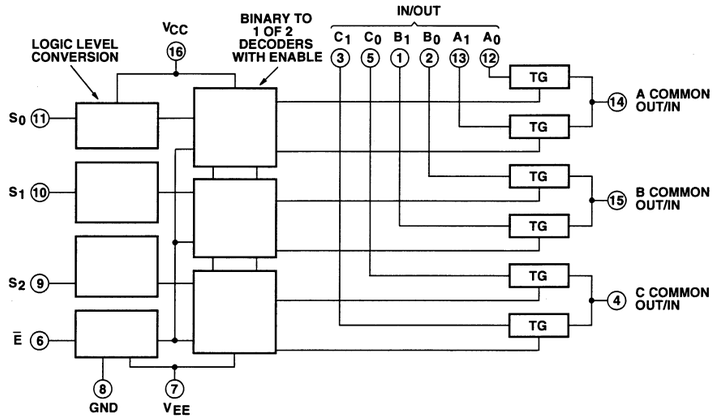


TRUTH TABLE

INPUT STATES				"ON" CHANNELS
ENABLE	S_0	S_1	S_2	
L	L	L	L	C0, B0, A0
L	H	L	L	C0, B0, A1
L	L	H	L	C0, B1, A0
L	H	H	L	C0, B1, A1
L	L	L	H	C1, B0, A0
L	H	L	H	C1, B0, A1
L	L	H	H	C1, B1, A0
L	H	H	H	C1, B1, A1
H	X	X	X	None

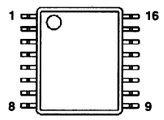
X = Don't care

FUNCTIONAL DIAGRAM

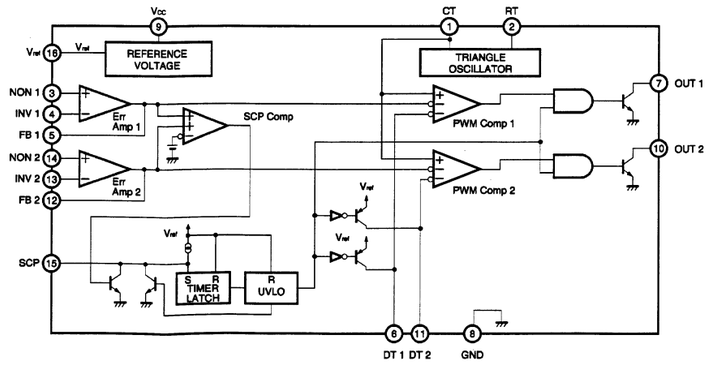


■ BA9743AFV-X [ROHM]
(2-channel Switching Regulator Controller)

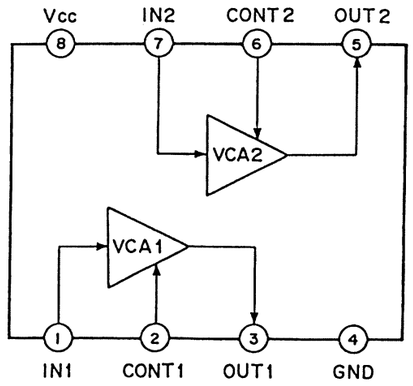
Block Diagram



(Top View)

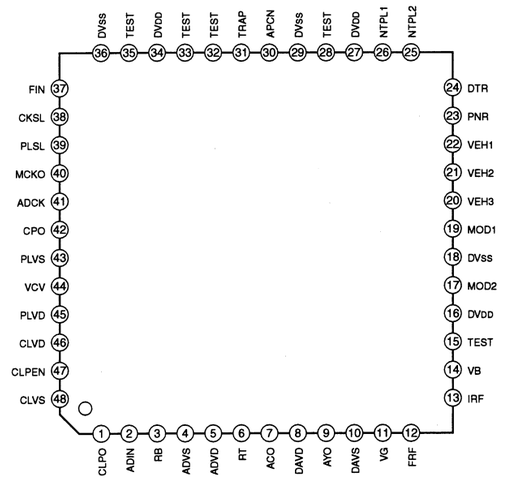


■ CXA1211M-X [SONY]
(Electric Volume)

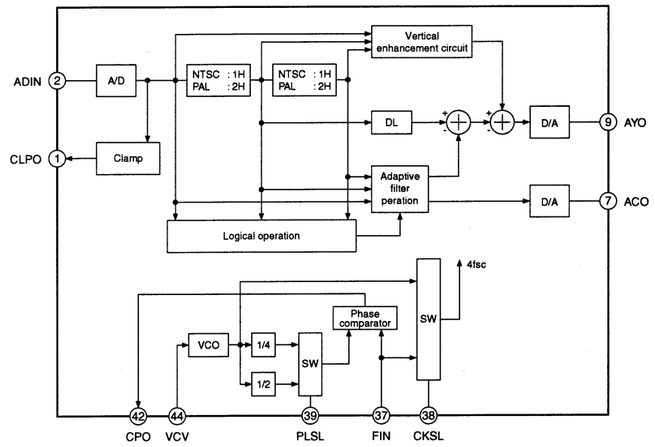


4-50

■ CXD2064Q [SONY]
(DIGITAL COM FILTER (NTSC/PAL))



(Top View)



Pin Description

Pin No.	Symbol	I/O	Description
1	CLPO	O	Internal clamp circuit current output. Connect to ADIN when using the internal clamp. Leave this pin open when not in use.
2	ADIN	I	Comb filter analog input (A/D converter input).
3	RB	O	Reference bottom voltage for the A/D converter (0.52V typ.).
4	ADVS	—	A/D converter analog ground.
5	ADVD	—	A/D converter analog power supply. (5.0V)
6	RT	O	Reference top voltage for the A/D converter (2.60V typ.).
7	ACO	O	Analog chroma signal output. Output can be obtained by connecting a resistor between this pin and the analog ground.
8	DAVD	—	D/A converter analog power supply. (5.0V)
9	AYO	O	Analog luminance signal output. Output can be obtained by connecting a resistor between this pin and the analog ground.
10	DAVS	—	D/A converter analog ground.
11	VG	O	D/A converter related pin. Connect a capacitor of approximately 0.1µF between this pin and the analog power supply (DAVD).
12	VRF	I	Sets the full-scale value of the Y and C-channel D/A converter output signal.
13	IRF	O	Connect a resistor of "16R" (16 times the output resistor "R" of the D/A converter).
14	VB	O	D/A converter related pin. Connect to the analog ground (DAVS) via a capacitor of approximately 0.1µF.
15	TEST	I	Test pin. Normally fix to "Low".
16	DV_{DD}	—	Digital power supply. (5.0V)
18	DVss	—	Digital ground.
17	MOD2	I	Y/C separation mode setting. MOD2 MOD1 L L Adaptive processing mode H L BPF separation mode H H Through mode
19	MOD1	I	
20	VEH3	I	Vertical enhancement setting. Can be set in 8 stages from VEH3 VEH2 VEH1: LLL (off) to HHH (max.)
21	VEH2	I	
22	VEH1	I	
23	PNR	I	L: NTSC/H: PAL, M-PAL, N-PAL
24	DTR	I	Normally fix to "Low".
25	NTPL2	I	NTSC/PAL/M-PAL/N-PAL mode setting. NTPL2 NTPL1 L L NTSC L H PAL H L M-PAL H H N-PAL
26	NTPL1	I	
27	DV_{DD}	—	Digital power supply. (5.0V)
28	TEST	I	Test pin. Normally fix to "Low".
29	DVss	—	Digital ground.
30	APCN	I	Horizontal aperture correction circuit setting. Low: Off, High: On.
31	TRAP	I	Trap filter setting. Low: Off, High: On.
32	TEST	I	Test pin. Normally open or fix to "Low".
33	TEST	I	Test pin. Normally open or fix to "Low".
34	DV_{DD}	—	Digital power supply. (5.0V)
35	TEST	I	Test pin. Normally open or fix to "Low".
36	DVss	—	Digital ground.
37	FIN	I	Clock input. Input the burst-locked fsc (2fsc) when using the internal PLL. Input the burst-locked 4fsc when not using the internal PLL.
38	CKSL	I	PLL control. Low: The internal PLL is not used. The clock (4fsc) which is input to FIN is supplied internally. High: The internal PLL is used. VCO oscillation output 4fsc clock is supplied internally.
39	PLSL	I	Selects the clock input to FIN. Low: fsc, High: 2fsc. When inputting 4fsc to FIN (when not using the internal PLL), this pin may be set to either "Low" or "High".
40	MCKO	O	Clock (4fsc) output.
41	ADCK	I	Clock input for A/D converter. Normally connect to MCKO.
42	CPO	O	PLL phase comparator output. Leave open when not using the PLL.
43	PLVS	—	PLL analog ground.
44	VCV	I	VCO control voltage input. Connect to PLVS when not using the PLL.
45	PLVD	—	PLL analog power supply. (5.0V)
46	CLVD	—	Clamp D/A converter analog power supply. (5.0V)
47	CLPEN	I	Clamp circuit enable pin. Low: Clamp on, High: Clamp off.
48	CLVS	—	Clamp D/A converter analog ground.

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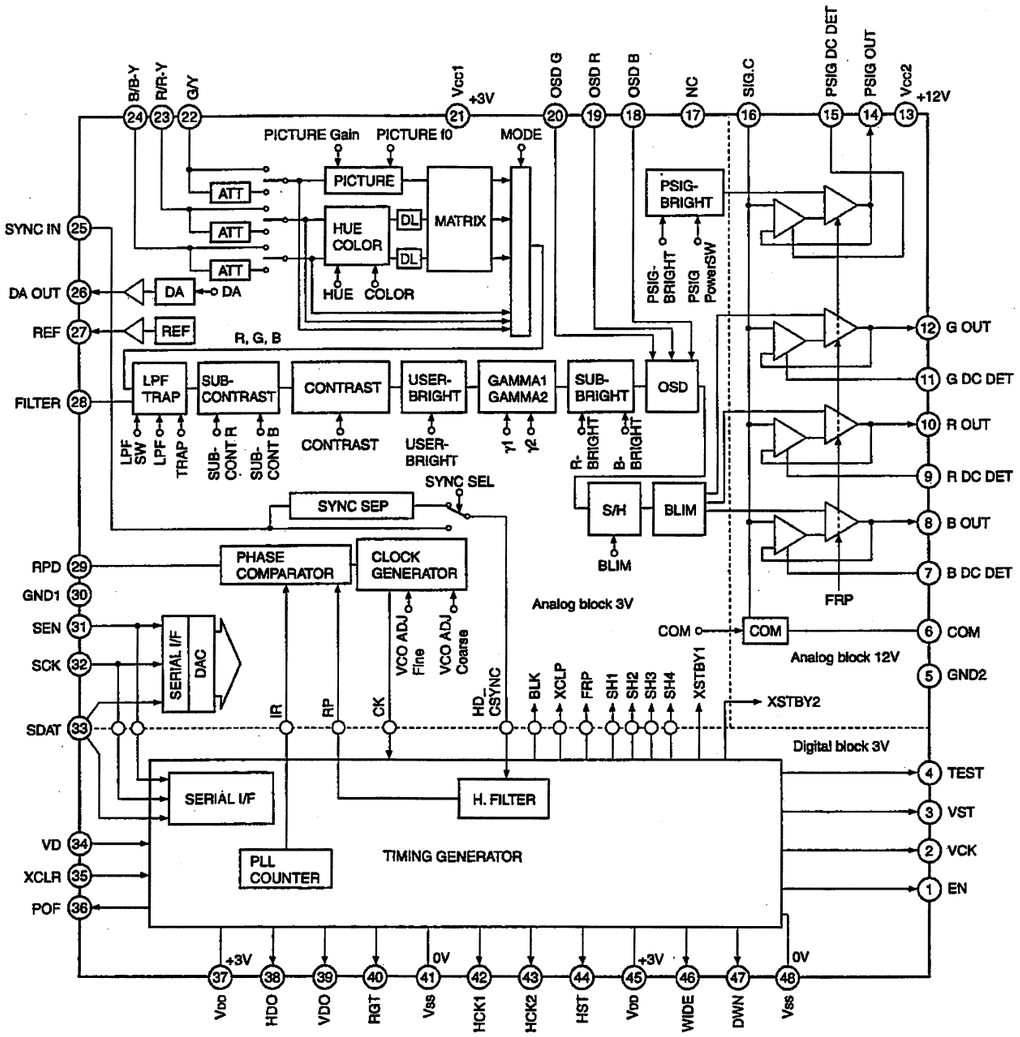
■ **CXM3004R [SONY]**
(Driver/Timing Generator for Color LCD Panels)

Block Diagram



Pin Description

Pin No.	Symbol	I/O	Description	Input pin for open status
1	EN	O	EN pulse output	
2	VCK	O	V clock pulse output	
3	VST	O	V start pulse output	
4	TEST	—	Test (Leave this pin open.)	
5	GND2	—	Analog 12.0V GND	
6	COM	O	Common pad voltage output for LCD panel	
7	B DC DET	O	B signal DC voltage feedback circuit capacitor connection	
8	B OUT	O	B signal output	
9	R DC DET	O	R signal DC voltage feedback circuit capacitor connection	
10	R OUT	O	R signal output	
11	G DC DET	O	G signal DC voltage feedback circuit capacitor connection	
12	G OUT	O	G signal output	
13	Vcc2	—	Analog 12.0V power supply	
14	PSIG OUT	O	PSIG output	
15	PSIG DC DET	O	PSIG signal DC voltage feedback circuit capacitor connection	
16	SIG.C	I	R, G, B and PSIG output DC voltage adjustment	
17	NC	—		
18	OSD B	I	OSD B input	
19	OSD R	I	OSD R input	
20	OSD G	I	OSD G input	
21	Vcc1	—	Analog 3.0V power supply	
22	G/Y	I	G/Y signal input	
23	R/R-Y	I	R/R-Y signal input	
24	B/B-Y	I	B/B-Y signal input	
25	SYNC IN	I	Sync separation circuit input/sync signal input	
26	DA OUT	O	DAC output	
27	REF	O	Level shifter circuit REF voltage output for LCD panel	
28	FILTER	O	Internal filter circuit f0 adjusting resistor connection	
29	RPD	O	Phase comparator output	
30	GND1	—	Analog 3.0V GND	
31	SEN	I	Serial load input	
32	SCK	I	Serial clock input	
33	SDAT	I	Serial data input	
34	VD	I	Vertical sync signal input	Pull-down
35	XCLR	I	Power-on reset capacitor connection (timing output block)	
36	POF	O	LCD panel power supply on/off (Leave this pin open when not using this function.)	

Pin No.	Symbol	I/O	Description	Input pin for open status
37	VDD	—	Digital 3.0V power supply	
38	HDO	O	HDO pulse output	
39	VDO	O	VDO pulse output	
40	RGT	O	Right/left inversion switching signal output	
41	VSS	—	Digital 3.0V GND	
42	HCK1	O	H clock pulse 1 output	
43	HCK2	O	H clock pulse 2 output	
44	HST	O	H start pulse output	
45	VDD	—	Digital 3.0V power supply	
46	WIDE	O	WIDE pulse output	
47	DWN	O	Up/down inversion switching signal output	
48	VSS	—	Digital 3.0V GND	

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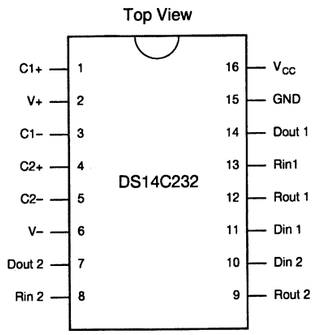
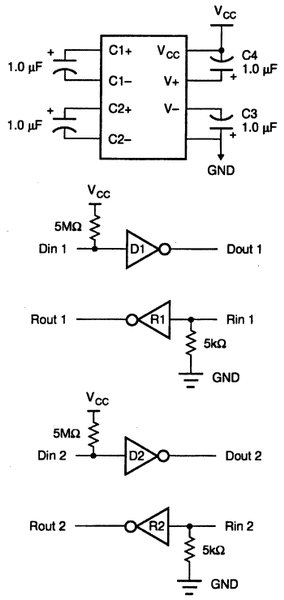
■ DS14C232CM-X [NATIONAL SEMICONDUCTOR]
(Dual Low-Power RS-232 Driver/Transceivers)

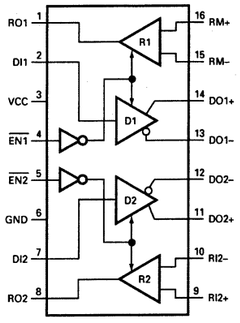




■ DS8922M-X [NATIONAL SEMICONDUCTOR]
(RS-422 Dual Differential Line Driver and Receiver Pairs)

Connection Diagrams

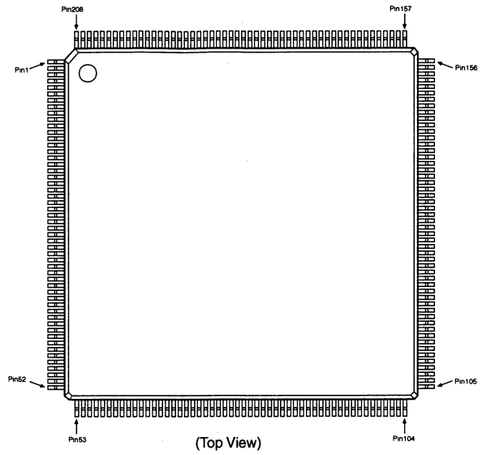
DS8922A Dual-In-Line



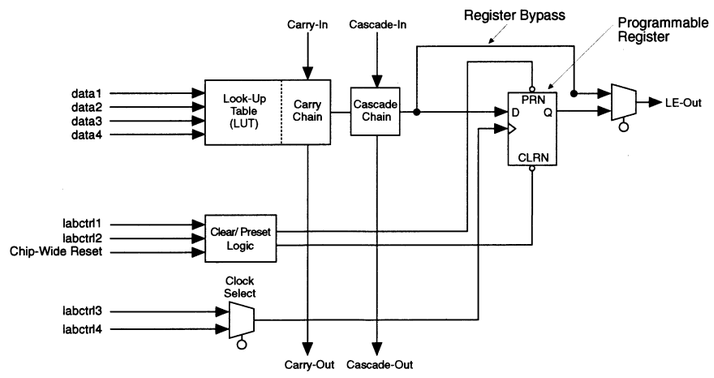
Top View

$\overline{EN1}$	$\overline{EN2}$	RO1	RO2	DO1	DO2
0	0	ACTIVE	ACTIVE	ACTIVE	ACTIVE
1	0	HI-Z	ACTIVE	HI-Z	ACTIVE
0	1	ACTIVE	HI-Z	ACTIVE	HI-Z
1	1	HI-Z	HI-Z	HI-Z	HI-Z

■ EPF6016AQC208-3 [ALTERA]
(Programmable Logic Device)



Logic Element



Pin Description

Pin Name(1)	208-Pin PQFP EPF6016A
MSEL(2)	46
nSTATUS(2)	80
nCONFIG(2)	77
DCLK(2)	184
CONF_DONE(2)	150
INIT_DONE(2)	135
nCE(2)	6
nCEO(4)	102
nWS(4)	169
nRS(4)	174
nCS(4)	159
CS(4)	162
RDTnBUSY(4)	140
CLKUSR	144
DATA(2),(5)	181
TDI(6)	19
TDO(6)	107
TCK	47
TMS	38
Dedicated Inputs	24, 28, 128, 132
DEV_CLRn(3)	187
DEV_OE(3)	178
VCCINT	8, 26, 44, 111, 130, 148
VCCIO	9, 27, 45, 63, 79, 96, 112, 131, 149, 166, 183, 200
GND	7, 25, 43, 62, 78, 95, 110, 129, 147, 165, 182, 199
No connect (N.C.)	–
Total user I/O pins(9)	171

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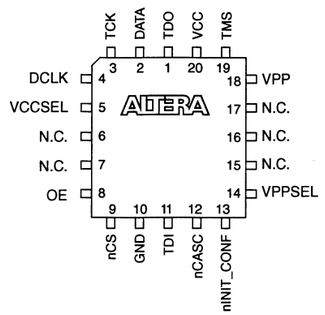
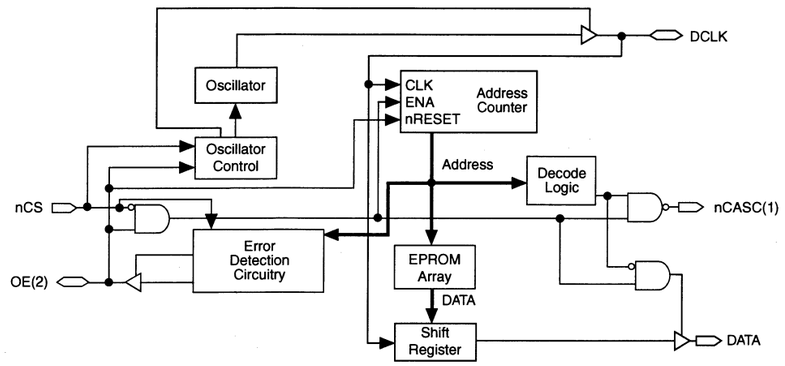
■ EPC2LC20-019 [ALTERA]
(Configuration Devices (1,695,680 x 1bit Device with 5.0V or 3.3V Operation))



(Top View)

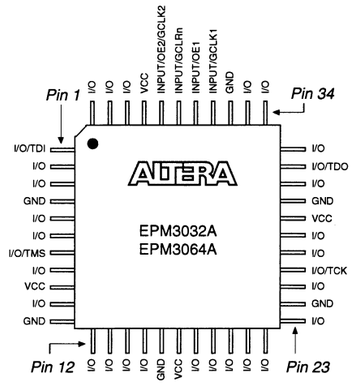
Block Diagram

ACEX 1K, APEX 20K, FLEX 10K, & FLEX 6000 Device Configuration Using an EPC2, EPC1, or EPC1441 Device



■ EPC2LC20-020 [ALTERA]
(Refer to EPC2LC20-019.)

■ EPM3064ATC44 [ALTERA]
(Programmable Logic Device)



(Top View)

Terminal explanation

No.	Terminal Symbols	I/O	Terminal Explanation
1	TDI	I	WRITE FOR PLD
2	DATA_TR	I/O	
3	AODATA0	O	Output data for analog (for RCA)
4	GND	GND	
5	AO_MUTE (H)	O	Mute control for analog output H:MUTE
6	SYS_MUTE (H)	I	Mute control by SYSCON
7	TMS	I	Write for PLD
8	MSD_MUTE (H)	I	Mute control by MSD microcomputor
9	VCC	VCC	
10	AUDIN_MUTE (H)	I	Mute control for audio output data
11	GND	GND	
12	AIDATA1	O	Input data for CH-3/4
13	AODATA1	I	Output data for CH-3/4
14	SDTI	O	Output data for audio XLR
15	DILRCK	O	LR clock generated from MCK. For 48K mode in recording
16	GND	GND	
17	VCC	VCC	
18	DIBCK	O	B clock generated from MCK. For 48K mode in recording
19	PLLMCK	I	Input MCK locked PLL
20	AUDMCK	O	Switch of MCK of locked or unlocked
21	OPDAT1	I	Input audio data from delay option (RCA)
22	OPDAT0	I	Input audio data from delay option (XLR)
23	AUD48K (H)	I	Selection for locked 48K mode
24	GND	GND	
25	ADPT_DIR_AUDIO	I	Control I/O for Net adapter (DIR)
26	TCK	I	Write for PLD
27	ADPT_OE_AUDIO	I	Control I/O for Net adapter (OE)
28	ADPT_PB (L)	I	Mode control for Net adapter L: PB / H: EE
29	VCC	VCC	
30	GND	GND	
31	AIN_DAT0	O	Audio input data for CH-1/2
32	TDO	I	Write for PLD
33	SDTO	I	AD convertor output
34	SEL	O	Outout MCK for 48K mode (27MHz)
35	SYS_BCK	I	Audio system bit clock
36	GND	GND	
37	AU27M	I	Input 27MHz for PLL lock. For 48K mode in recording
38	PLD_CTL0	I	PLD control
39	SYS_LRCK	I	Audio LR clock
40	AIMCK	I	Audio master clock
41	VCC	VCC	
42	AODAT0	I	Audio output data
43	PLD_CTL1	I	PLD control (RESERVE)
44	AUDIO_DAT_T	I	Input data from XLR option

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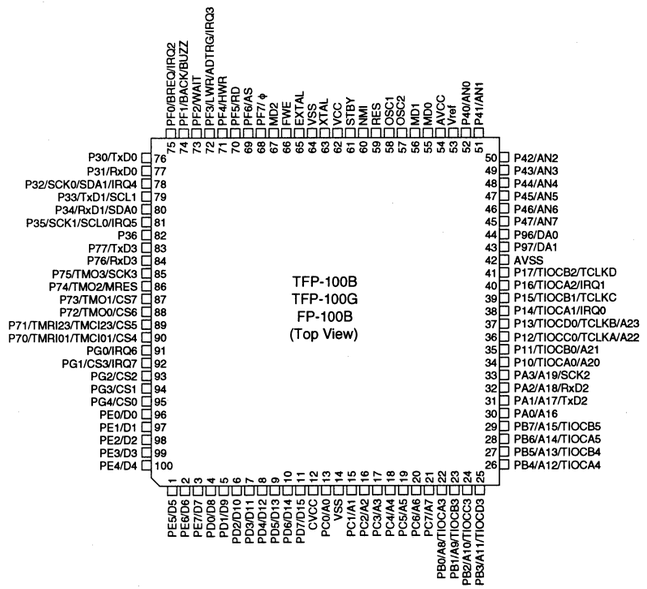
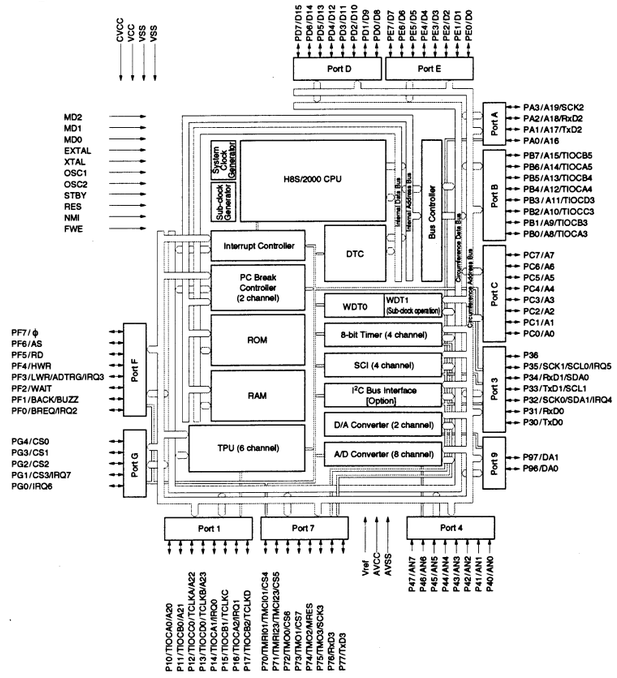
■ HD64F2238RFA13 [HITACHI]
(16-Bit Single Chip Micro Computer)

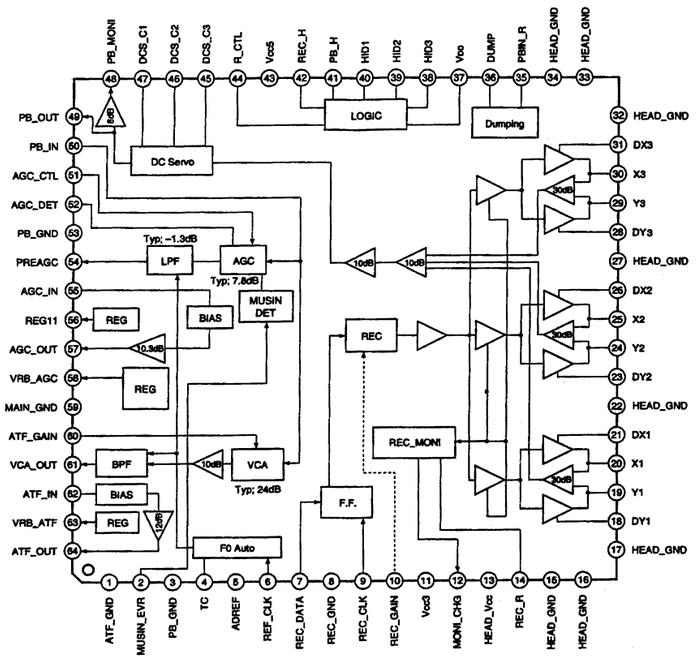


Block diagram



■ JCY0132 [SONY]
(REC/PLAY amplifier for digital VCR)

Block diagram



Pin description

Pin No.	Pin name	Description	Pin No.	Pin name	Description
1	ATF_GND	Ground terminal	36	DUMP	HEAD resonance control terminal at playback mode
2	MUSIN_EVR	EVR terminal for non-signal detection level adjustment of AGC circuit	37	VDD	VDD power supply terminal
3	PB_GND	Ground terminal	38	HID3	Mode control terminal, channel select of playback amplifier and control of recording current measurement circuit
4	TC	Time constant terminal for F0 auto PLL circuit	39	HID2	Mode control terminal, channel select of recording/playback amplifier
5	ADREF	ADREF power supply terminal ADREF	40	HID1	Mode control terminal, channel select of recording/playback amplifier
6	REF_CLK	Reference clock input terminal for F0 auto PLL	41	PB_H	Mode control terminal, ON/OFF of playback circuit
7	REC_DATA	REC DATA input terminal	42	REC_H	Mode control terminal, ON/OFF of recording circuit
8	REC_GND	Ground terminal	43	Vcc5	Vcc5 power supply terminal
9	REC_CLK	REC CLOCK input terminal	44	R_CTL	Mode control terminal, ON/OFF of recording current output
10	REC_GAIN	Adjusting terminal for recoding current	45	DCS_C3	Time constant terminal for DC servo circuit
11	Vcc3	Vcc3 power supply terminal	46	DCS_C2	Time constant terminal for DC servo circuit
12	MONI_CHG	Monitor terminal for recording current output level : REC mode, Quick charge pulse input terminal of TC terminal : PB mode	47	DCS_C1	Time constant terminal for DC servo circuit
13	HEAD_Vcc	Power supply terminal of R/P amplifier section	48	PB_MONI	PB amplifier monitor terminal
14	REC_R	External resistor connecting terminal for recording current output level monitor	49	PB_OUT	PB amplifier output terminal
15	HEAD_GND	Ground terminal	50	PB_IN	PB MAIN/ATF input terminal
16	HEAD_GND	Ground terminal	51	AGC_CTL	AGC control terminal for MAIN family
17	HEAD_GND	Ground terminal	52	AGC_DET	Time constant terminal for MAIN family
18	DY1	Damping resistor connecting terminal	53	PB_GND	Ground terminal
19	Y1	HEAD terminal	54	PREAGC	AGC+LPF output terminal for MAIN family
20	X1	HEAD terminal	55	AGC_IN	10.3dB amplifier input terminalfor MAIN family
21	DX1	Damping resistor connecting terminal	56	REG11	Regulator 1.1V output terminal
22	HEAD_GND	Ground terminal	57	AGC_OUT	Output terminal for MAIN family
23	DY2	Damping resistor connecting terminal	58	VRB_AGC	Bottom reference voltage output terminal for A/D converter of MAIN family
24	Y2	HEAD terminal	59	MAIN_GND	Ground terminal
25	X2	HEAD terminal	60	ATF_GAIN	VCA control terminal for ATF family
26	DX2	Damping resistor connecting terminal	61	VCA_OUT	VCA+BPF output terminal for ATF family
27	HEAD_GND	Ground terminal	62	ATF_IN	12dB amplifier input terminal for ATF family
28	DY3	Damping resistor connecting terminal	63	VRB_ATF	Bottom reference voltage output terminal for A/D converter of ATF family
29	Y3	HEAD terminal	64	ATF_OUT	Output terminal for ATF family
30	X3	HEAD terminal			
31	DX3	Damping resistor connecting terminal			
32	HEAD_GND	Ground terminal			
33	HEAD_GND	Ground terminal			
34	HEAD_GND	Ground terminal			
35	PBIN_R	External resistor connecting terminal for playback reference current			

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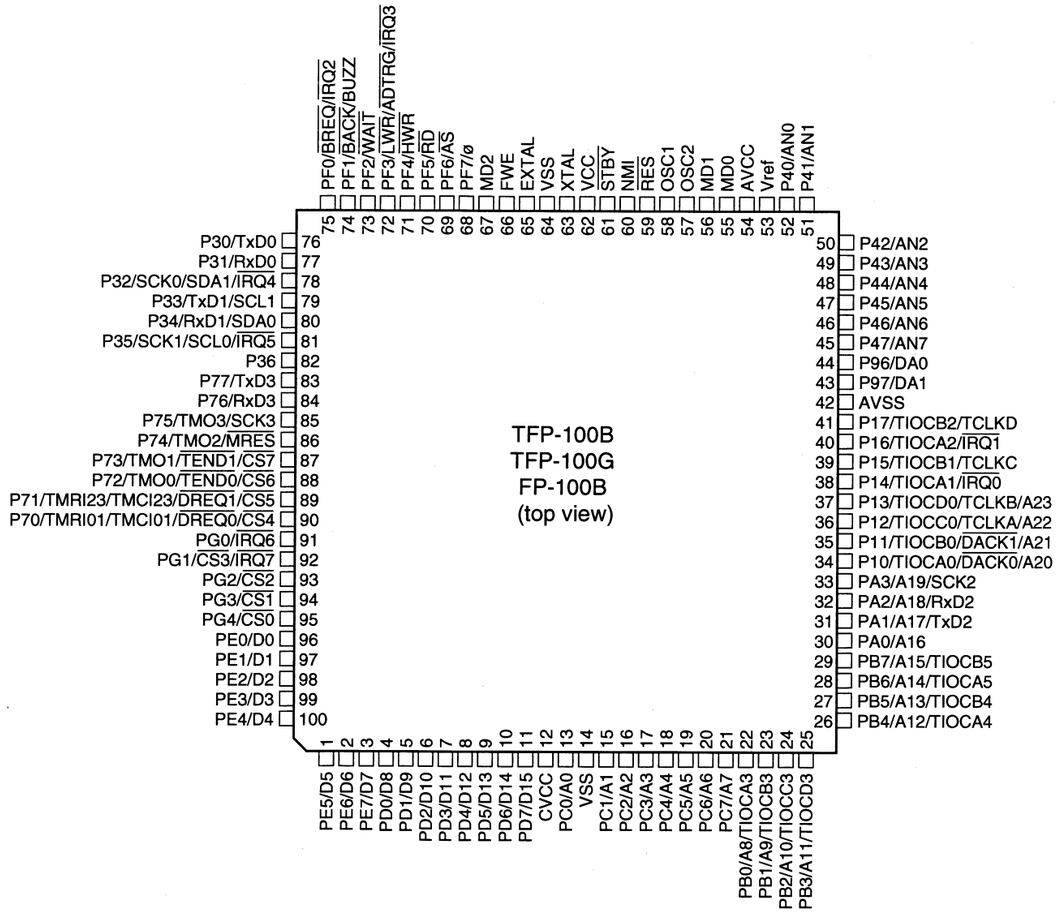
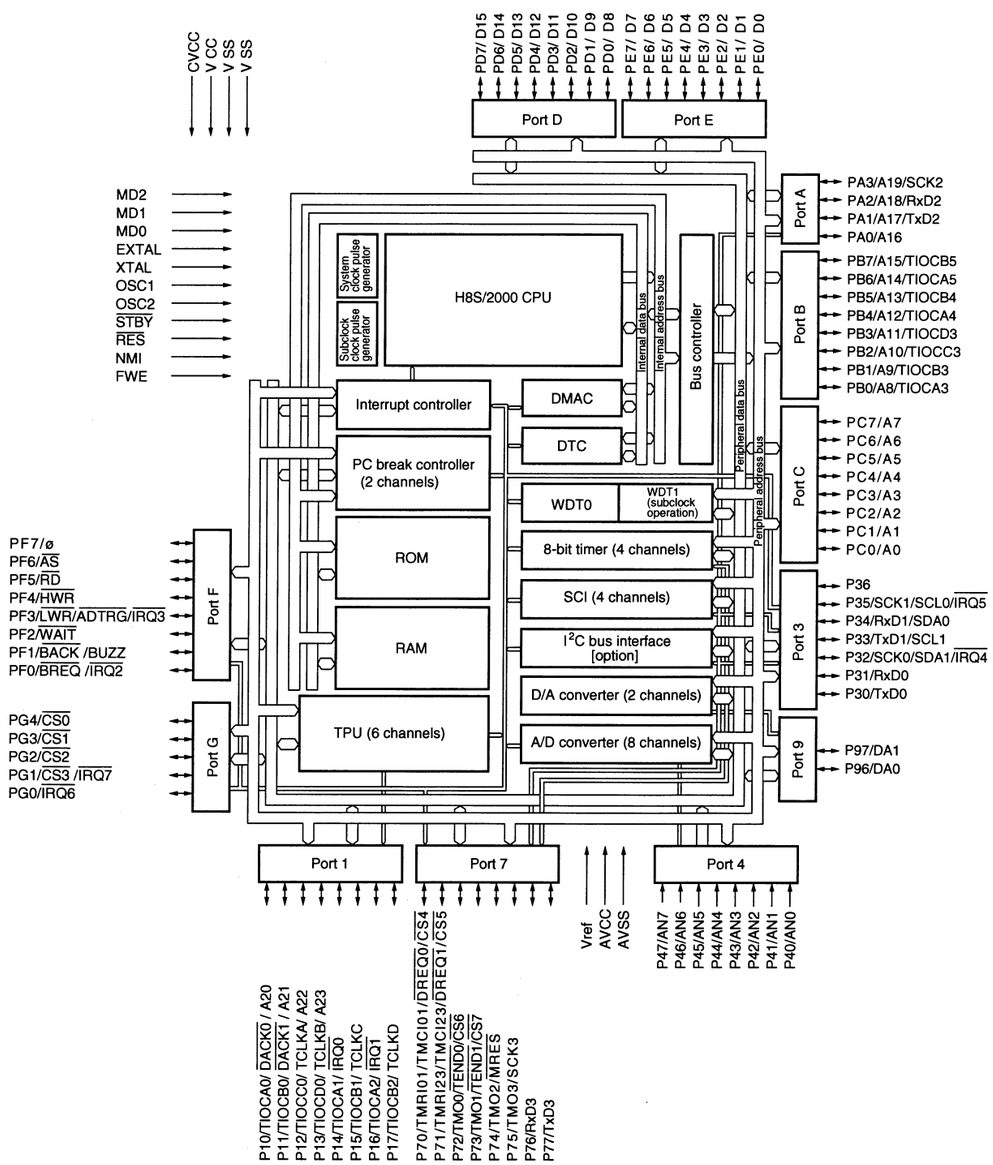
■ **HD64F2239FA16 [HITACHI]**
(16-Bit Single-Chip Microcomputer)

Pin Arrangements

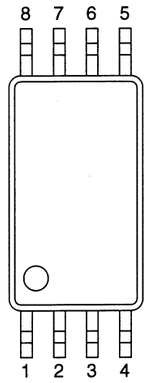


Internal Block Diagrams

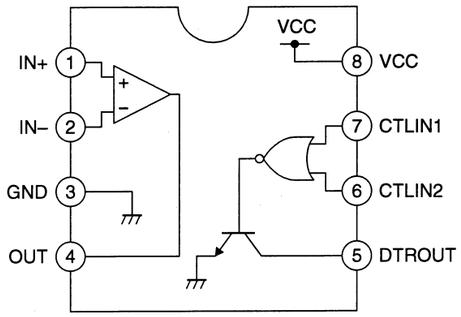


4-56

■ JCY0136-X [ROHM]
(High frequency operational amplifier for DVC)



Block diagram



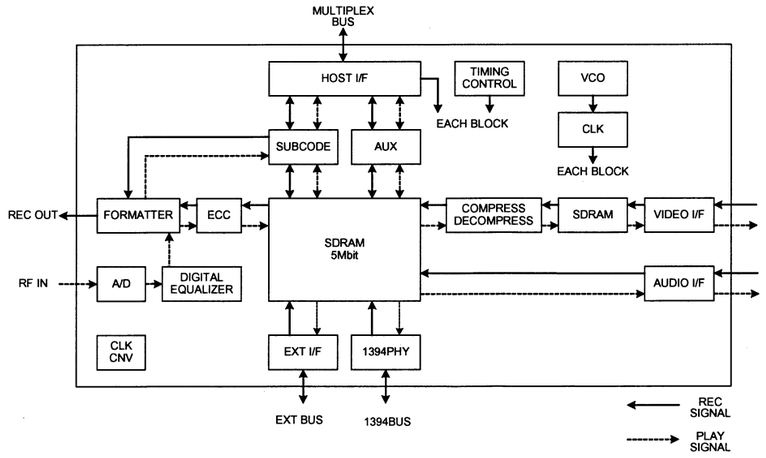
■ JCY0152 [JVC]
(DVC LSI)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	
A	1	84	83	82	81	80	79	78	77	76	75	74	73	72	71	70	69	68	67	66	65	64	A
B	2	85	160	159	158	157	156	155	154	153	152	151	150	149	148	147	146	145	144	143	142	63	B
C	3	86	161	228	227	226	225	224	223	222	221	220	219	218	217	216	215	214	213	212	141	62	C
D	4	87	162	229	288	287	286	285	284	283	282	281	280	279	278	277	276	275	274	211	140	61	D
E	5	88	163	230															273	210	139	60	E
F	6	89	164	231															272	209	138	59	F
G	7	90	165	232															271	208	137	58	G
H	8	91	166	233															270	207	136	57	H
J	9	92	167	234															269	206	135	56	J
K	10	93	168	235															268	205	134	55	K
L	11	94	169	236															267	204	133	54	L
M	12	95	170	237															266	203	132	53	M
N	13	96	171	238															265	202	131	52	N
P	14	97	172	239															264	201	130	51	P
R	15	98	173	240															263	200	129	50	R
T	16	99	174	241															262	199	128	49	T
U	17	100	175	242															261	198	127	48	U
V	18	101	176	243															260	197	126	47	V
W	19	102	177	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	196	125	46	W
Y	20	103	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	124	45	Y
AA	21	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	44	AA
AB	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	AB
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	

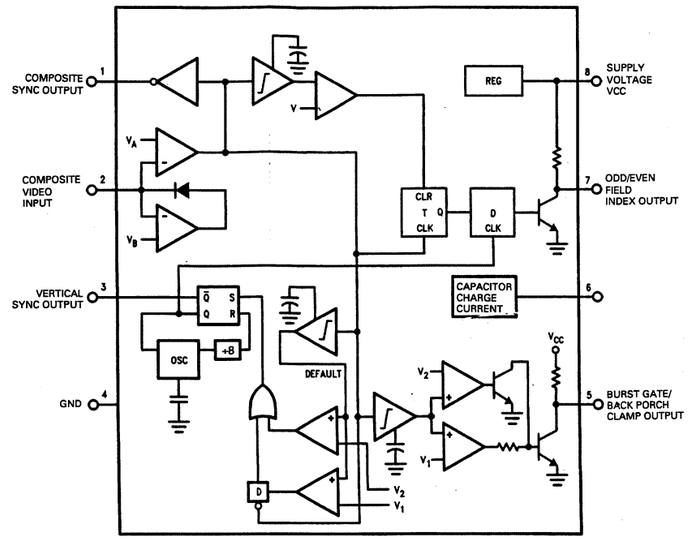
●INDEX

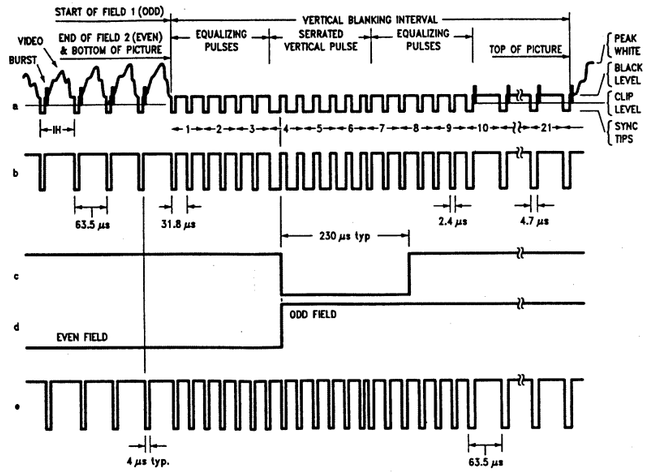
Top View
FJ pin –Ball
(288Pin)

Block Diagram



■ LM1881M-X [National Semiconductor]
(Video Sync Separator)





(a) Composite Video; (b) Composite Sync; (c) Vertical Output Pulse; (d) Odd/Even Field Index; (e) Burst Gate/Back Porch Clamp

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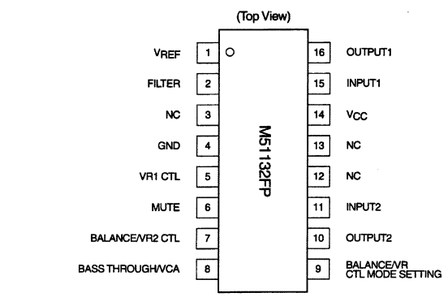
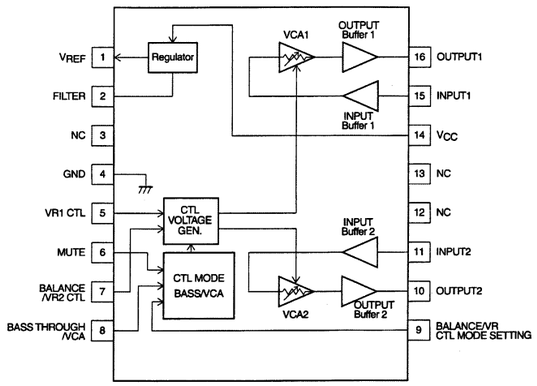
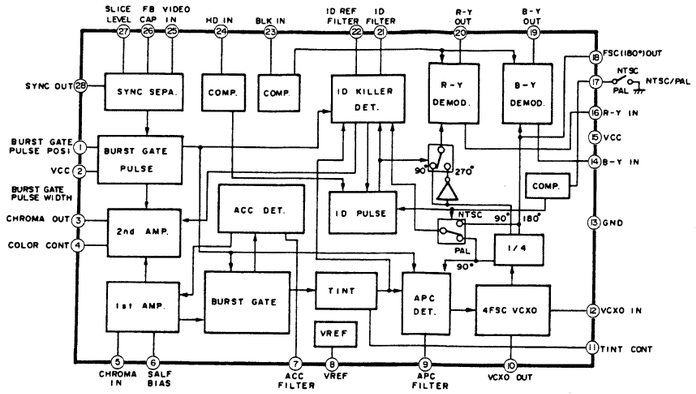
■ M51132FP-X [MITSUBISHI]
(2 Channel Electrical VR/Balance for Audio Level)



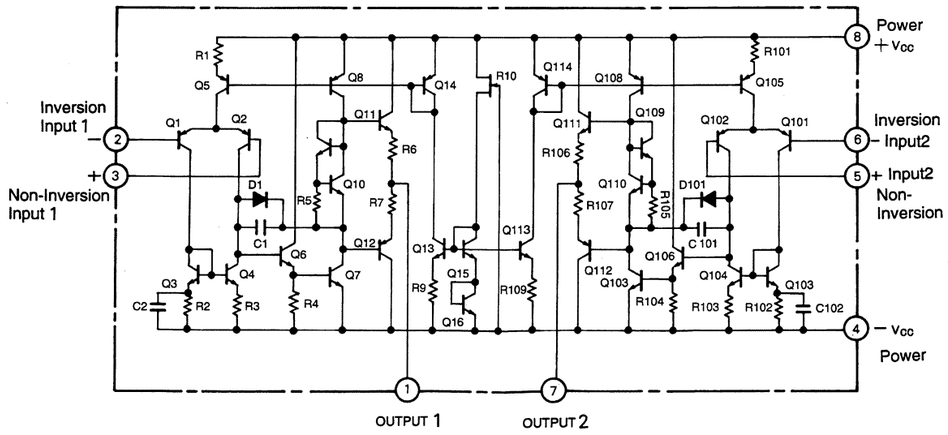


NC : NOT CONNECT

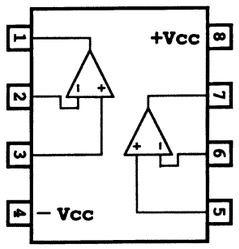
■ M51271FP-X [MITSUBISHI]
(Component Decoder)



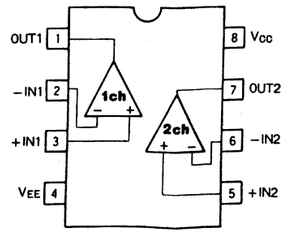
■ M5218AFP-X [MITSUBISHI]
(Dual Op.Amp.)



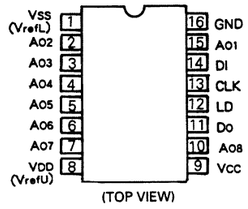
■ M5216FP-X [MITSUBISHI]
(Dual Op Amp.)



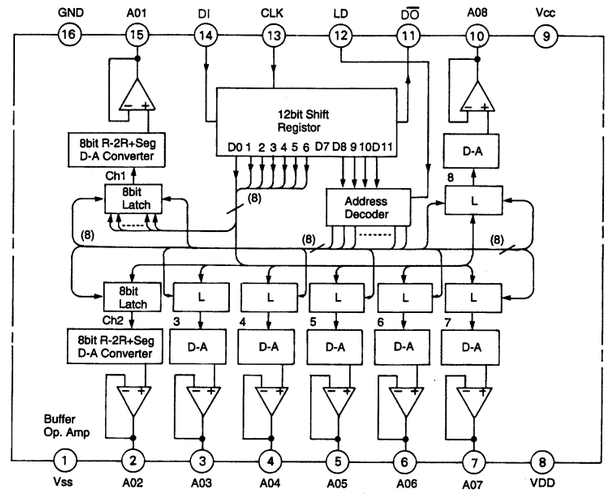
(TOP VIEW)



■ M62353GP-X [MITSUBISHI]
(8-Bit 8-Channel D/A Converter)



(TOP VIEW)



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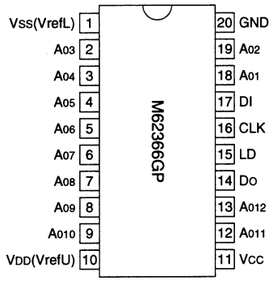
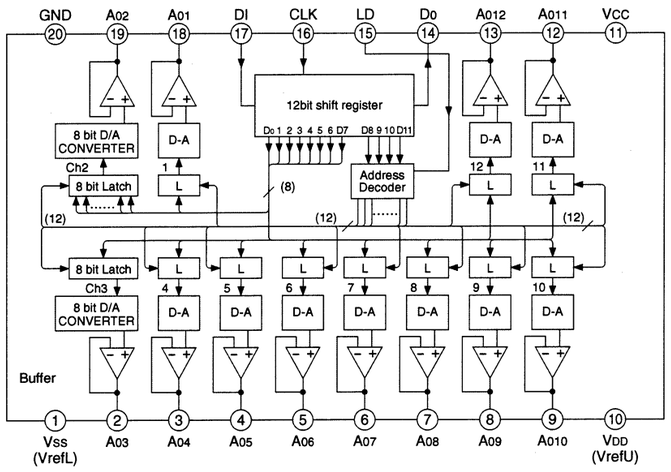
■ M62366GP-X [MITSUBISHI]
(8bit 12channel D/A converter)



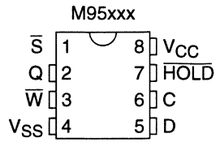
(TOP VIEW)

Pin No.	Symbol	Function
⑰	DI	Serial data input terminal to input 12-bit long serial data
⑭	Do	Terminal to output MSB data of 12-bit shift register
⑯	CLK	Shift clock input terminal.Input signal at DI pin is input to 12-bit shift register at rise of shift clock pulse
⑮	LD	When H-level signal is input to this terminal,the value stored in 12-bit shift register is loaded in decoder and D-A converter output register
⑱ ⑲ ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑫ ⑬	A01 A02 A03 A04 A05 A06 A07 A08 A09 A010 A011 A012	8-bit D-A converter output terminal
⑪	VCC	Power supply terminal
⑳	GND	GND terminal
⑩	VDD	D-A converter upper reference voltage input terminal
①	Vss	D-A converter lower reference voltage input terminal

Block Diagram



■ M95320-WMN6-X [ST MICROELECTRONICS]
(64/32 Kbit Serial SPI Bus EEPROM)

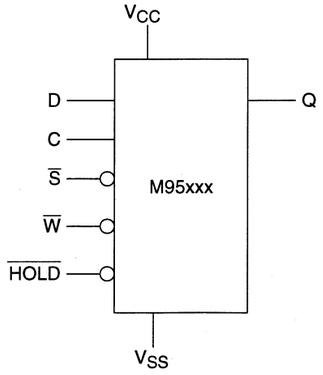


(Top View)

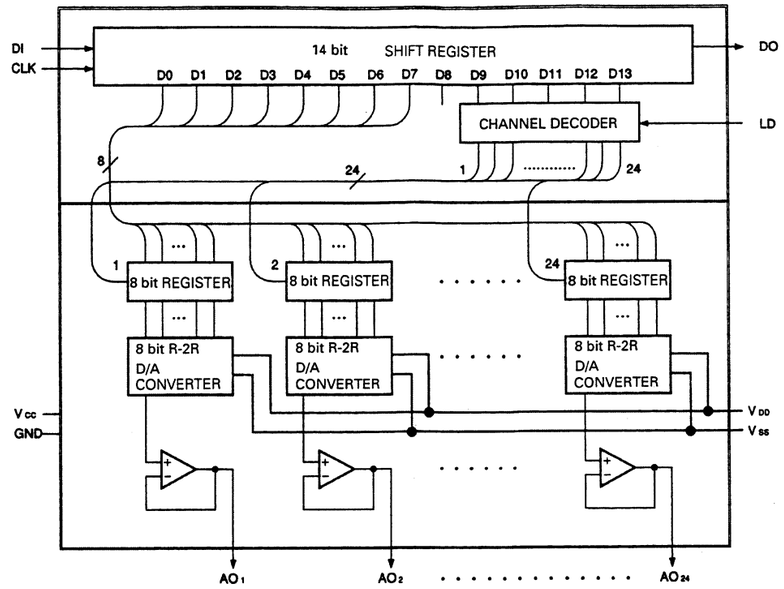
Signal Names

C	Serial Clock
D	Serial Data Input
Q	Serial Data Output
$\overline{S}$	Chip Select
$\overline{W}$	Write Protect
$\overline{HOLD}$	Hold
V_{CC}	Supply Voltage
V_{SS}	Ground

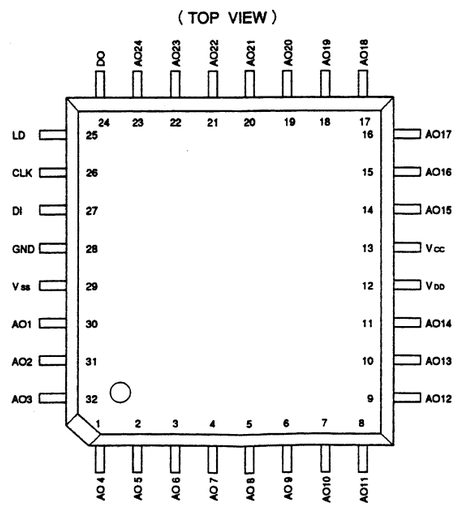
Logic Diagram



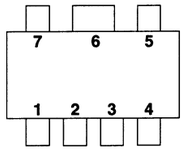
■ MB88345PF [FUJITSU]
(D/A Converter)



(TOP VIEW)



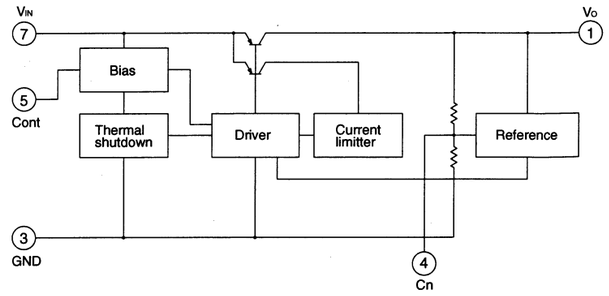
■ MM1565AF-X [MITSUMI]
(500mA Regulator (5V))



(TOP VIEW)

1	Vo
2	NC
3	GND
4	Cn
5	CONT
6	Sub
7	VIN

Block Diagram



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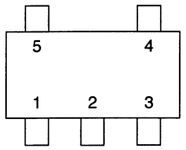
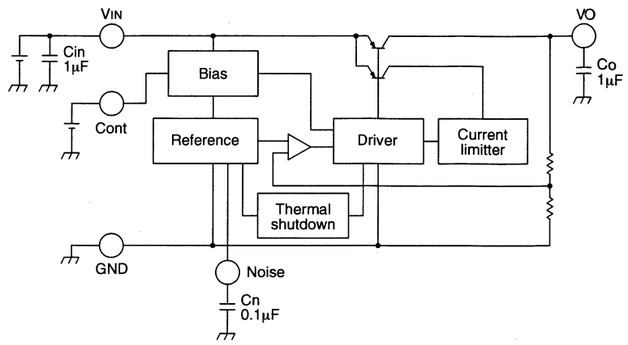
■ MM1571JN-X [MITSUMI]
(1.8V Regulator)



SOT-25A
(TOP VIEW)

1	VIN
2	GND
3	Cont
4	Noise
5	Vo

Block Diagram



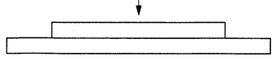
■ MN103SF33NY4 [MATSUSHITA]
(32-Bit Microcomputer)

Pin Assignment

N.D.		TDI	PF3, TM25IOB	PF1, TM24IOB	VDD2	PD5, TM15IO	PD2, TM12IO	PC6, SY1OT2, SBT8	PC4, SY1OT0, SBI8	VSS	PB2, IRQ14	PA2, SBT6	P91, ICR9	P87, ICR7	P83, ICR3	P81, ICR1	N.D.	
		TCK	PF2, TM25IOA	PE0, TM20IOA	PE5, TM22IOB	PE3, TM21IOB	PD3, TM13IO	VDD2	PC2, SY0OT2	PB4, BR	PA4, SBO7	PA0, SBI6	VSS	P85, ICR5	P60, IRQ8	P80, ICR0		
TDO	PV2, SBTA	PV1, SBOA	PE6, TM23IOA	PE2, TM21IOA	PD4, TM14IO	PD1, TM11IO	PC7, SY1OT3, SY0OT1	PC1, BG	PB5,	PB1, IRQ13	PA5, SBT7	PA3, SBI7	P92, ICR10	P86, ICR6	VSS	P62, IRQ10	P63, IRQ11	P61, IRQ9
PV0, SBIA	PG6, AN6	VREFL	TMS	PF0, TM24IOA	PE4, TM22IOA	PE7, TM23IOB	PE1, TM20IOB	PD0, TM10IO	PC0, SY0OT0	PB0, IRQ12	P93, ICR11	P94, ICR12	VDD2	P82, ICR2	P84, ICR4	P54, IRQ4	P33, D27, SBT2	N.C.*2 (VDDF)
PV3, ADTRG	VSS	PG2, AN2	VDD	TRST	N.D.	VDD	N.C.*1 (VSS)	VSS	PC5, SY1OT1, SBO8	PC3, SY0OT3	PB3, WDOVF	PA1, SBO6	N.C.*1 (VSS)	P90, ICR8	P56, IRQ6	P34, D28, SBI3	P25, D21, SBT0	P57, IRQ7
PG3, AN3	AVDD	PG4, AN4	VREFH	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	P52, IRQ2	P43, PWM4	P53, IRQ3	P51, IRQ1
PG7, AN7	PG5, AN5	PH2, AN10	PG1, AN1	PG0, AN0	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	P50, IRQ0	P55, IRQ5	P41, PWM2, TM11O	VSS	P40, PWM1, TM0IO
PH5, AN13	PH3, AN11	PH4, AN12	PH1, AN9	PH0, AN8	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	P36, D30, SBT3	P42, PWM3, TM21O	P37, D31, PWM0	VDDH	P35, D29, SBO3
PI5, AN21	PI3, AN19	PH7, AN15	PI1, AN17	PI0, AN16	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	P27, D23, SBO1	VSS	P31, D25, SBI2	P32, D26, SBO2	P30, D24, SBT1
AVSS	PI7, AN23	PH6, AN14	PI4, AN20	PI6, AN22	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	P21, D17, SBOB	P24, D20, SBO0	P23, D19, SBI0	P22, D18, SBTB	P26, D22, SBI1
VSS	PM1, CS1	PI2, AN18	VDDB	P70, AN24	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	N.D	P12, D10	P16, D14	N.C.*1 (VSS)	P20, D16, SBIB	VSS
PM3, CS3	PN0, WE0, SDQM0	PM0, CS0	PM4, CS4	VSS	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	P10, D8	VDDH	P17, D15	P13, D11	N.C.*2 (VDDF)
PN2, SYSCLK	VSS	PM5, RWSEL	PN4, DK	VDD	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	P02, D2	VSS	P15, D13	P07, D7	P11, D9
PO0, ADM0, A0	VDD	PM2, CS2	PN5, AS	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	VSS	P00, D0	P06, D6	P03, D3	P05, D5
VDDB	PO5, ADM5, A5	PN1, WE1, SDQM1	PO1, ADM1, A1	VSS	N.D.	PVSS	MMOD1	VSS	PK3, TM33IO	PL2, TM5IO	PR1, A20, KI1	PR7, KI7, PWM5	N.D.	PT1, SBO9	VOUT	P04, D4	P14, D12	P01, D1
PO3, ADM3, A3	PO2, ADM2, A2	PN3, RE	PO7, ADM7, A7	VSS	RST	VDDH	CKSEL	VDD	PK4, TM34IO	PL3, TM6IO	PR2, A21, KI2, SWE	PS0, SBI4	VSS	PS5, SBT5	PS3, SBI5	VDDH	VOUT	電源(GND)なし
PO6, ADM6, A6	VDDB	PP2, ADM10, A10	PO4, ADM4, A4	PP4, ADM12, A12	PK1, TM31IO	PK5, TM35IO	PK7, TM37IO	PK0, TM30IO	PL1, TM4IO	PL4, TM7IO	PQ0, A16	PQ2, A18	VDDH	PR4, A23, KI4, SDCLKO	PU0, WE2, SCAS	NMIRQ	VDDH	VSS
N.D.		PP6, ADM14, A14	PJ0, EXMOD0	PP3, ADM11, A11	PP7, ADM15, A15	PJ1, EXMOD1	FRQS	PK2, TM32IO	PK6, TM36IO	PL5, PWM6	PR0, A19, KI0	PR5, A24, KI5, SDCLKI	PS2, SBT4	PT0, SBI9	PS1, SBO4	LON	N.D.	
		PP0, ADM8, A8	PP1, ADM9, A9	PP5, ADM13, A13	PVDD	MMOD0	OSCO	OSCI	PL0, TM3IO	VSS	PQ1, A17	PR3, A22, KI3, SCKE	PR6, A25, KI6	PS4, SBO5	PT2, SBT9	PU1, WE3, SRAS	N.D.	
19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1

W V U T R P N M L K J H G F E D C B A

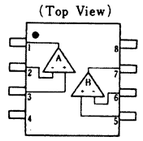
Perspective



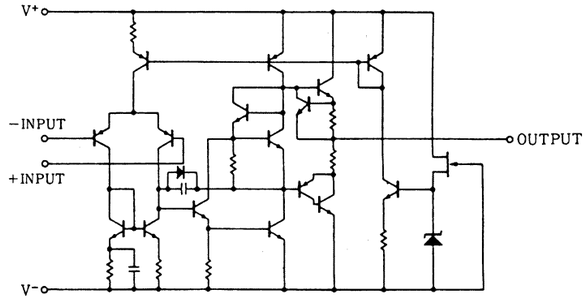
■ MM1572FN-X [MITSUMI]
(Refer to MM1571JN-X.)

■ MM1572KN-X [MITSUMI]
(Refer to MM1571JN-X.)

■ NJM4556AM-XE [JRC]
(Dual High Current Op.Amp)

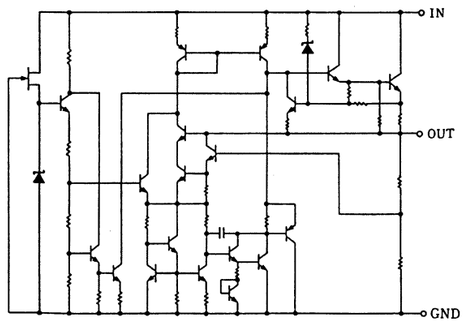


1. A OUTPUT
2. A−INPUT
3. A+INPUT
4. V-
5. B+INPUT
6. B−INPUT
7. B OUTPUT
8. V+

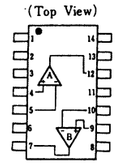


■ NJM78M05DL1A-X [JRC]
(3-Terminal Positive Voltage Regulator (+5V))

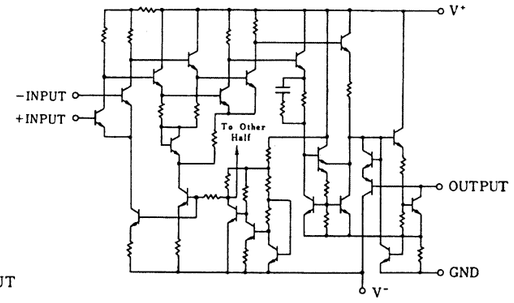
NJM7800DL1A
1.IN
2.GND
3.OUT



■ NJM319M-X [JRC]
(Voltage Comparator)



1. NC
2. NC
3. A GND
4. A+INPUT
5. A−INPUT
6. V-
7. B OUTPUT
8. B GND
9. B+INPUT
10. B−INPUT
11. V+
12. A OUTPUT
13. NC
14. NC

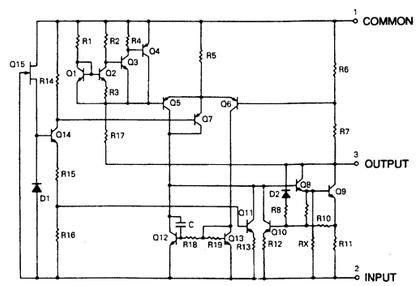


■ NJM78M12DL1A-X [JRC]
(Refer to NJM78M05DL1A-X.)

■ NJM79L05UA-X [JRC]
(3-Terminal Negative Voltage Regulator (-5V))

1. COMMON
2. IN
3. OUT

NJM79L00UA



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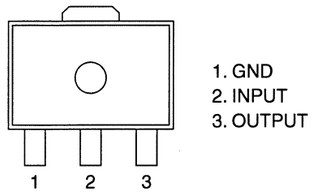
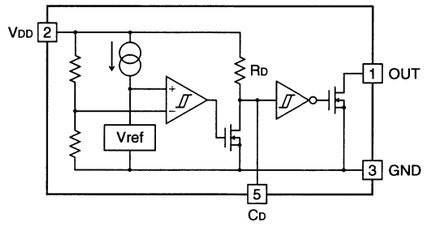
■ NJU7222U30-X [JRC]
(3-Terminal Positive Voltage Regulator)



1. GND
2. INPUT
3. OUTPUT

■ RN5VD26AA-X [RICHO]
(Voltage detector)

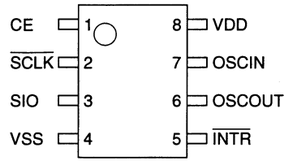
Block diagram



Pin descriptions

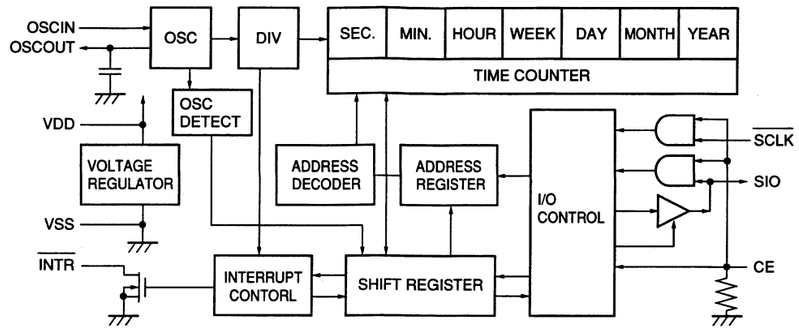
Pin Number	Pin Name	Pin Description
1	OUT	Output terminal
2	VDD	Power supply terminal
3	GND	Ground terminal
4	NC	Not connect
5	CD	External capacitor connecting terminal for delay

■ RS5C314-X [RICHO]
(CMOS Realtime Clock)

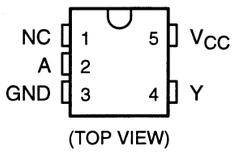


(Top view)

Block diagram



■ SN74AHC1G04K-X [TEXAS INSTRUMENTS]
(Single Inverter Gate)

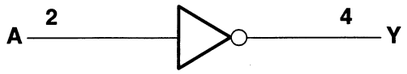


(TOP VIEW)

FUNCTION TABLE

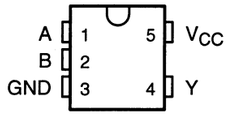
INPUT A	OUTPUT Y
H	L
L	H

Logic diagram (positive logic)



■ SN74AHC1G08K-X [TEXAS INSTRUMENTS]
(Single 2-Input Positive AND Gate)

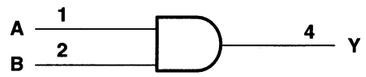
(TOP VIEW)



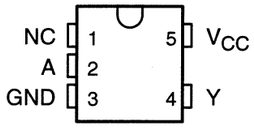
FUNCTION TABLE

INPUTS A	INPUTS B	OUTPUT Y
H	H	H
L	X	L
X	L	L

Logic diagram (positive logic)



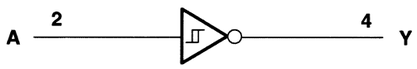
■ SN74AHC1G14K-X [TEXAS INSTRUMENTS]
(Single Schmitt-trigger Inverter Gate)



(TOP VIEW)

NC-No internal connection

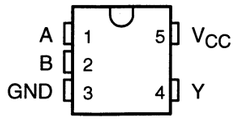
logic diagram (positive logic)



FUNCTION TABLE

INPUT A	OUTPUT Y
H	L
L	H

■ SN74AHC1G32K-X [TEXAS INSTRUMENTS]
(Single 2-Input Positive OR Gate)

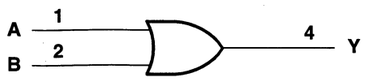


(TOP VIEW)

FUNCTION TABLE

INPUTS A	INPUTS B	OUTPUT Y
H	X	H
X	H	H
L	L	L

Logic diagram (positive logic)



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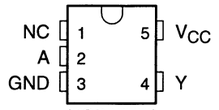
■ SN74AHC1GU04K-X [TEXAS INSTRUMENTS] (Single Inverter Gate)

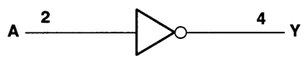


(TOP VIEW)

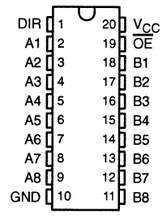
NC – No internal connection

FUNCTION TABLE

INPUT A	OUTPUT Y
H	L
L	H



■ SN74AHC245DGV-X [TEXAS INSTRUMENTS] (Octal Bus Transceivers with 3-State Outputs)

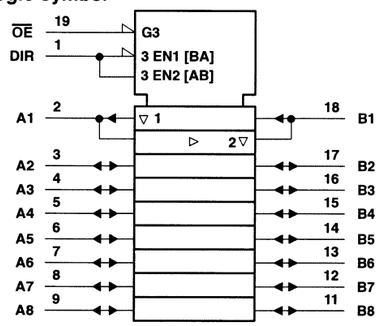


(TOP VIEW)

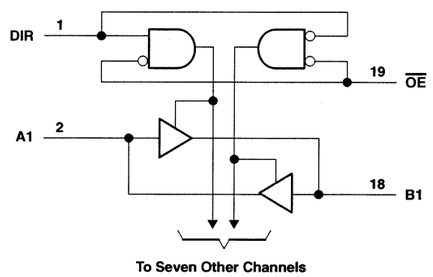
FUNCTION TABLE
(each transceiver)

INPUTS OE	INPUTS DIR	OPERATION
L	L	B data to A bus
L	H	A data to B bus
H	X	Isolation

Logic symbol

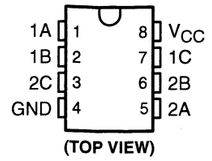


Logic diagram (positive logic)



To Seven Other Channels

■ SN74AHC2G66U-X [TEXAS INSTRUMENTS] (Dual Bidirectional Analog Switch)

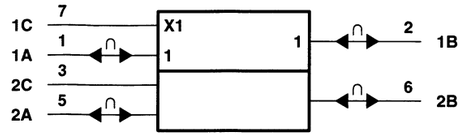


(TOP VIEW)

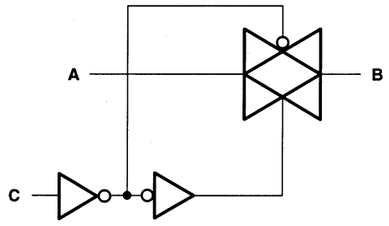
FUNCTION TABLE

INPUTS CONTROL (C)	SWITCH
L	OFF
H	ON

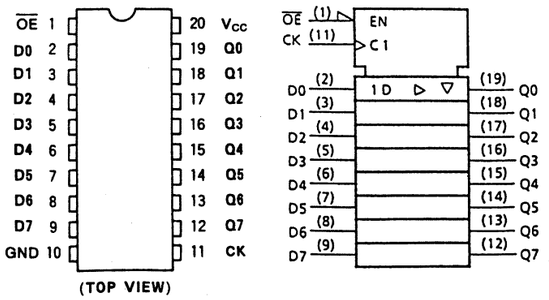
Logic symbol



Block diagram



■ SN74AHC574PW-X [TEXAS INSTRUMENTS] (Octal D-Type EDGE-Trigger Flip-Flop With NON Inverted 3-State Outputs)



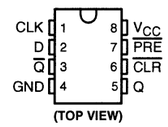
(TOP VIEW)

Logic

INPUTS OE	INPUTS CK	INPUTS D	OUTPUT
H	X	X	Z
L	↑	X	Q_n
L	↓	L	L
L	↓	H	H

X : Don't Care
Z : High Impedance
Qn : No Change

■ SN74AHC2G74U-X [TEXAS INSTRUMENTS] (D-Type Flip-Flop with Preset and Clear)



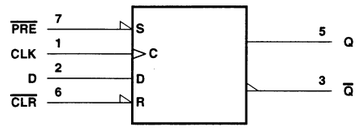
(TOP VIEW)

FUNCTION TABLES

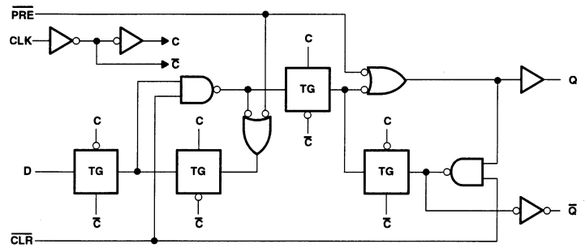
INPUTS PRE	INPUTS CLR	INPUTS CLK	INPUTS D	OUTPUTS Q	OUTPUTS Q
L	H	X	X	H	L
H	L	X	X	L	H
L	L	X	X	H†	H†
H	H	↑	H	H	L
H	H	↑	L	L	H
H	H	↓	X	Q_0	$\overline{Q}_0$

† This configuration is nonstable; that is, it does not persist when PRE or CLR returns to its inactive (high) level.

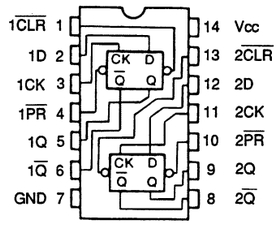
Logic symbol



Block diagram



■ SN74AHC74PW-X [TEXAS INSTRUMENTS] (Dual D-Type Flip-Flop with Preset and Clear)



(Top View)

TRUE Table

INPUTS CLR	INPUTS PR	INPUTS D	INPUTS CK	OUTPUTS Q	OUTPUTS Q	FUNCTION
L	H	X	X	L	H	CLEAR
H	L	X	X	H	L	PRESET
L	L	X	X	H	H	—
H	H	L	↓	L	H	—
H	H	H	↓	H	L	—
H	H	X	L	Q_n	$\overline{Q}_n$	NO CHANGE

X : Don't care

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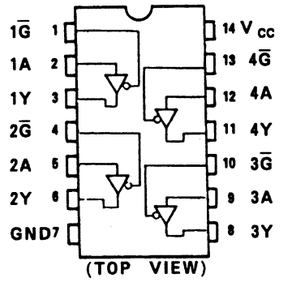
■ SN74AHCT125PW-X [TEXAS INSTRUMENTS]
(Quad Bus Buffer Gates With 3-State Outputs)



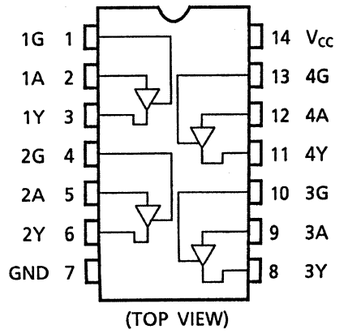
(TOP VIEW)

TC74HC125A TRUE Table

INPUTS		OUTPUTS
G	A	Y
H	X	Z
L	L	L
L	H	H

X : Don't Care
Z : High Impedance

■ SN74LV126ADGV-X [TEXAS INSTRUMENTS]
(Bus Buffer Gates with 3-State Output)



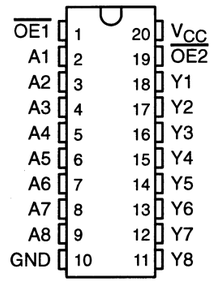
(TOP VIEW)

INPUTS		OUTPUTS
G	A	Y
L	X	Z
H	L	L
H	H	H

X: Don't Care
Z : High Impedance

■ SN74AHCT1G08K-X [TEXAS INSTRUMENTS]
(Refer to SN74AHC1G08K-X.)

■ SN74AHCT541PW-X [TEXAS INSTRUMENTS]
(Octal Buffers/Drivers with 3-State Outputs)

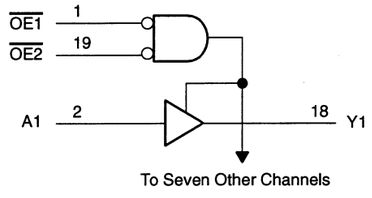


(TOP VIEW)

Function table
(each buffer/driver)

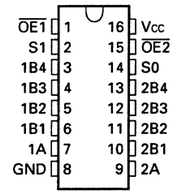
INPUTS			OUTPUT
OE1	OE2	A	Y
L	L	L	L
L	L	H	H
H	X	X	Z
X	H	X	Z

Logic diagram (positive logic)



To Seven Other Channels

■ SN74CBT3253PW-X [TEXAS INSTRUMENTS]
(2 Circuit 4 Bit-1 Bit FET Multiplexer/Demultiplexer)

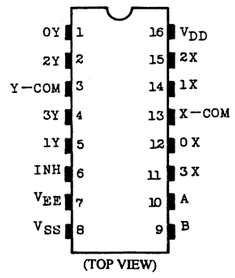


Top View

S1	S0	OE1	OE2	FUNCTION
X	X	X	H	Disconnect 1A
X	X	H	X	Disconnect 2A
L	L	L	L	1A to 1B1 and 2A to 2B1
L	H	L	L	1A to 1B2 and 2A to 2B2
H	L	L	L	1A to 1B3 and 2A to 2B3
H	H	L	L	1A to 1B4 and 2A to 2B4

H:High Level
L:Low Level
X:Dont Care

■ TC4052BFT/N/-X [TOSHIBA]
(Dual 4 Channel Analog Multiplexers/Demultiplexers)



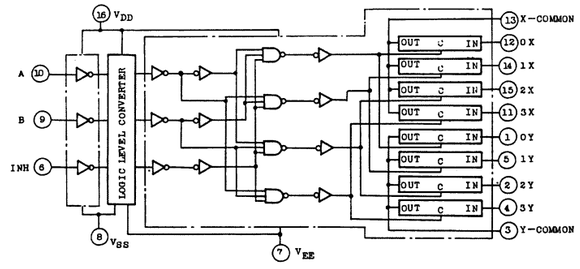
(TOP VIEW)

TRUTH TABLE

CONTROL INPUTS			"ON" CHANNEL
INHIBIT	B	A	TC4052BP TC4052BF
L	L	L	0X, 0Y
L	L	H	1X, 1Y
L	H	L	2X, 2Y
L	H	H	3X, 3Y
L	L	L	—
L	L	H	—
L	H	L	—
L	H	H	—
H	※	※	NONE

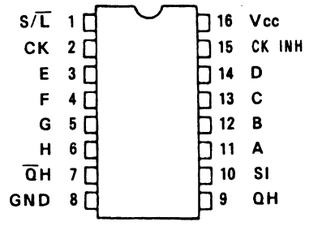
※ Don't Care

LOGIC DIAGRAM



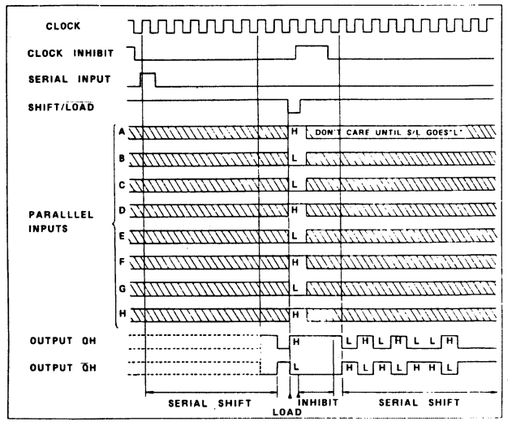
■ SN74LV125APW-X [TEXAS INSTRUMENTS]
(Refer to SN74AHCT125PW-X.)

■ SN74LV165ADGV-X [TEXAS INSTRUMENTS]
(8-Bit Serial or Parallel-In/Serial Out Shift Registers)

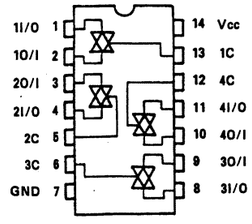


(TOP VIEW)

Timing chart



■ TC74HC4066AF-X [TOSHIBA]
(Quad Analog Switches)



(TOP VIEW)

TRUE Table

CONTROL	SWITCH FUNCTION
H	ON
L	OFF

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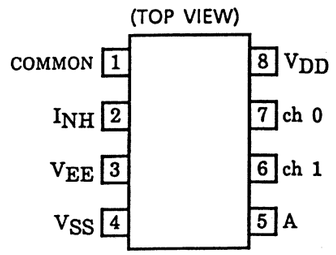
■ TC4W53FU-X [TOSHIBA]
(2-Channel Multiprexer)



Truth table

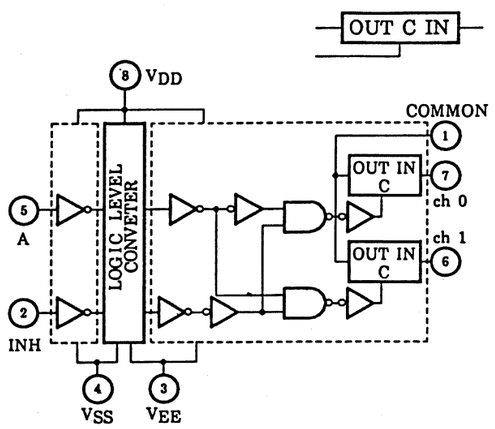
CONTROL C	IMPEDANCE BETWEEN IN-OUT ※
H	0.5~5×10³Ω
L	>10⁹Ω

※ Don't Care

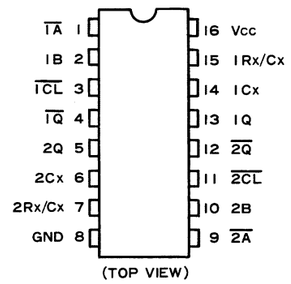
Truth table

CONTROL INPUT		ON CHANNEL
INH	A	
L	L	ch 0
L	H	ch 1
H	※	NONE

※ Don't Care



■ TC74VHC123AFT-X [TOSHIBA]
(Dual Retriggerable Monostable Multivibrators)

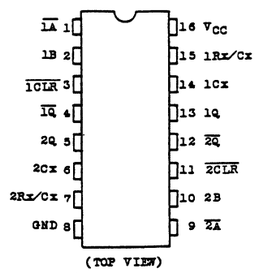


TRUE Table

INPUTS			OUTPUTS		NOTE
$\overline{A}$	B	$\overline{OL}$	Q	$\overline{Q}$	
↓	H	H	⎍	⎎	OUTPUT ENABLE
X	L	H	L	H	INHIBIT
H	X	H	L	H	INHIBIT
L	↓	H	⎍	⎎	OUTPUT ENABLE
L	H	↓	⎍	⎎	OUTPUT ENABLE
X	X	L	L	H	INHIBIT

X:DON'T CARE

■ TC74VHC221AFT-X [TOSHIBA]
(Dual Monostable Multivibrators
(With Schmitt Trigger Input))

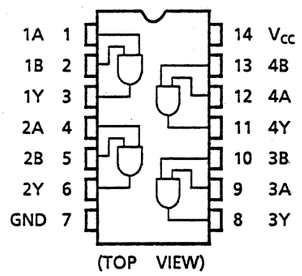


True Table

INPUTS			OUTPUTS		NOTE
$\overline{A}$	B	CL	Q	$\overline{Q}$	
↓	H	H	⎍	⎎	OUTPUT ENABLE
X	L	H	L	H	INHIBIT
H	X	H	L	H	INHIBIT
L	↓	H	⎍	⎎	OUTPUT ENABLE
L	H	↓	⎍	⎎	OUTPUT ENABLE
X	X	L	L	H	INHIBIT

X : DON'T CARE

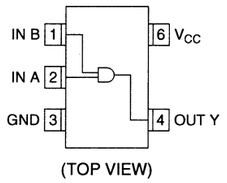
■ TC74VHCT08AFT-X [TOSHIBA]
(Quad 2-Input AND Gates)



TRUE Table

A	B	Y
L	L	L
L	H	L
H	L	L
H	H	H

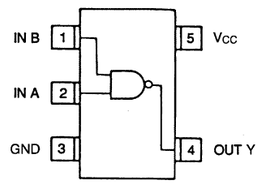
■ TC7SET08F-X [TOSHIBA]
(2-input AND GATE)



TRUTH TABLE

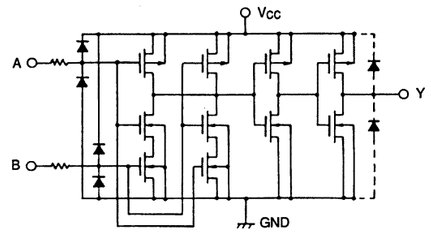
A	B	Y
L	L	L
L	H	L
H	L	L
H	H	H

■ TC7SH00FU-X [TOSHIBA]
(2-Input NAND Gate)

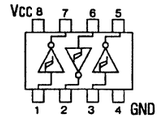


TRUE Table

A	B	Y
L	L	H
L	H	H
H	L	H
H	H	L



■ TC7W14FU-X [TOSHIBA]
(Schmitt Trigger Triple Inverte Gate)



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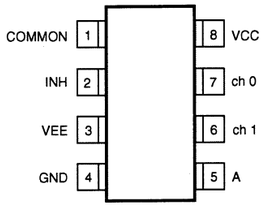
■ TC7W53FU-X [TOSHIBA]
(2-Channel Multiplexer/Demultiplexer)



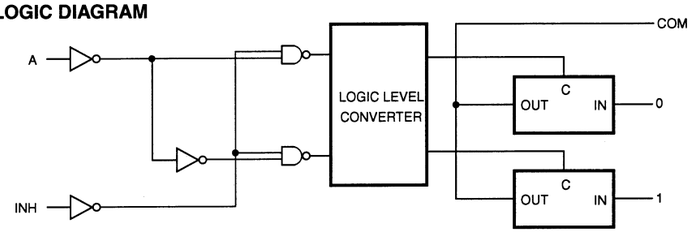
(TOP VIEW)

TRUTH TABLE

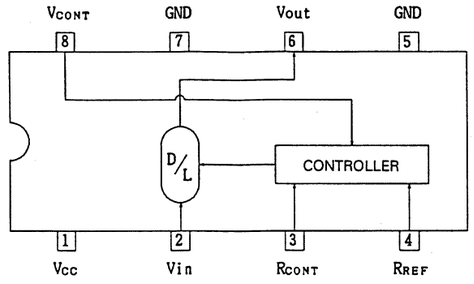
CONTROL INPUT		ON CHANNEL
INH	A	
L	L	ch 0
L	H	ch 1
H	×	NONE

× : Don't care

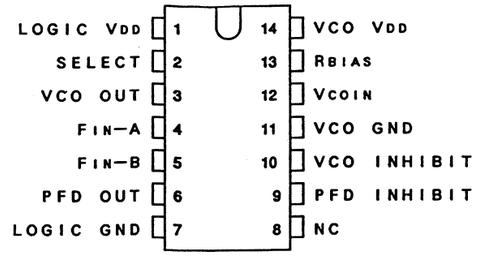
LOGIC DIAGRAM



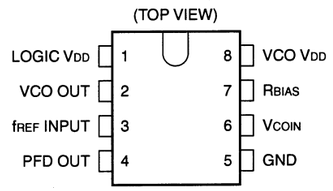
■ TK16031AM-X [TOKO]
(Analog Delay line)

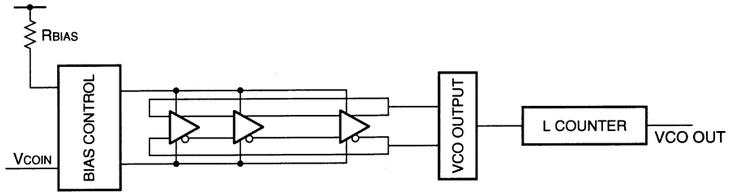


■ TLC2932IPW-X [TEXAS INSTRUMENTS]
(PLL)

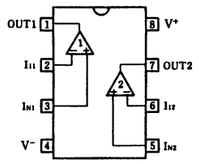


■ TLC2940IPW-X [TEXAS INSTRUMENTS]
(75MHz CMOS VCO)



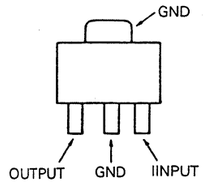


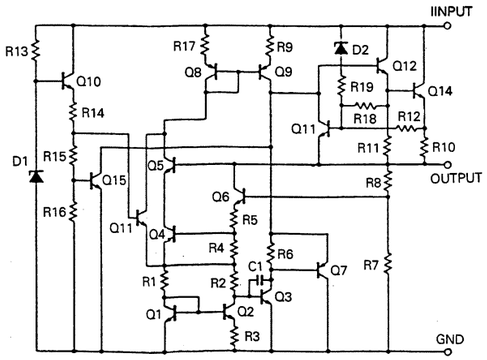
■ UPC4082G2-X [NEC]
(J-FET Input Dual Op-Amplifire)



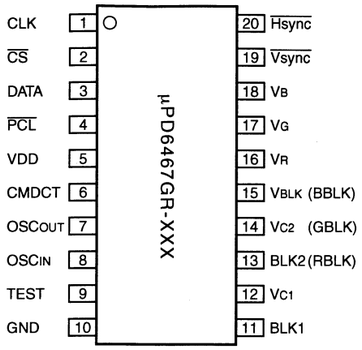
(TOP VIEW)

■ UPC78L12T-W [NEC]
(3-Terminal Positive Voltage Regulator (+12V))



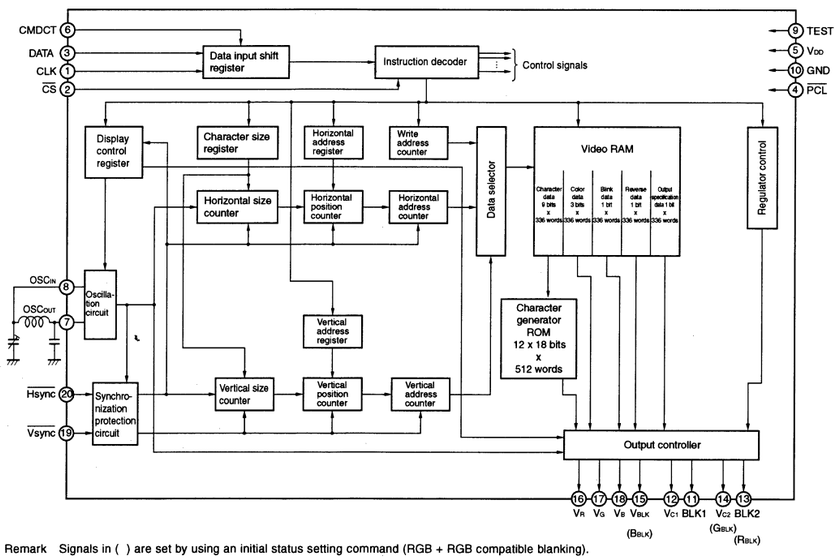


■ UPD6467GR-533-X [NEC]
(ON-SCREEN CHARACTER DISPLAY)



(Top View)

BLOCK DIAGRAM



Remark Signals in ( ) are set by using an initial status setting command (RGB + RGB compatible blanking).

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SECTION 5
EXPLODED VIEW AND PARTS LIST

● **SAFETY PRECATION**

Parts identified by the ⚠ symbol are critical for safety.
Replace only with specified parts numbers.

● **NOTE**

Parts not denoted by parts numbers are not supplied by JVC.

■ CABINET & CHASSIS ASSEMBLY PARTS LIST M2

M2MM□□□□

Symbol No.	Part No.	Part Name	Description
1	LL20097-001A-H	TOP COVER	
2	LL20098-001A-H	BOTTOM COVER	
3	QZF2008-002	FOOT	
4	To be announced	FRONT PANEL ASS	
4A	LL10077-001B-H	FRONT PANEL	
4B	LL30336-001A-H	INDICATOR	x10
4C	LL30332-001A-H	A.DUB BUTTON	
4D	LL30332-002A-H	REC BUTTON	
4E	LL30332-003A-H	PLAY BUTTON	
4F	LL30332-004A-H	PAUSE BUTTON	
4G	LL30332-005A-H	EJECT BUTTON	
4H	LL30332-006A-H	STOP BUTTON	
4J	LL30332-008A-H	OPERATE BUTTON	
4K	LL30333-001A-H	BUTTON	x5,MENU/RESET/HOLD/CVE UP/SET
4L	LL30333-002A-H	INDEX BUTTON	x2
4M	LL30333-003A-H	DISP/BLANK BUTT	x2
4N	LL30334-001A-H	STOPPER	
4P	PGD30011-2	JVC MARK	
4Q	LL30332-007A-H	FF/REW BUTTON	x2
4R	LL30335-001A-H	STOPPER	
5	LL10075-001A-H	FRAME(R SIDE)	
6	LL20100-001A-H	FRAME(SUB SIDE)	
7	LL30326-001A-H	BRACKET(RAIL)	
8	PGZ00493-02	GUIDE RAIL	x2
9	LL40379-001A-H	BRACKET(PWB)	x2
10	LL10076-001A-H	BRACKET(L SIDE)	
⚠ 11	LL30338-003B	RATING LABEL	E MODEL
⚠ 11	PRD31421-08	RATING LABEL	U MODEL
12	LL20101-001A-H	FRAME(FRONT)	
13	LL30327-001A-H	BRACKET(PWB)	
14	LL40396-001A	INSULATOR(BTM)	
15	LL30325-001A-H	FRAME(CENTER)	
16	LL40376-001A-H	BRACKET(MIC)	
17	LL30330-001A-H	STAY(REG)	
18	SC45456-001	LABEL	U MODEL
19	LL30331-001A-H	CASE	
20	LL30352-001A	INASULATOR(TOP)	
21	LL20099-001A-H	REAR COVER	
22	LL30324-001A-H	BRACKET(REAR)	
23	LL30329-001A-H	BRACKET(9PIN)	
24	LL30328-001A-H	PANEL(SLOT)	
25	LL40383-001A-H	BRACKET(FAN)	
26	QAR0208-001	FAN MOTOR	
27	LL40397-001A	DUCT	
28	SS45014-003	WIRE CLAMP	
29	LL30314-001D-H	BRACKET(L)	
30	LL30315-001C-H	BRACKET(R)	
31	LL30316-001A-H	SUB BRACKET(L)	
32	LL30317-001A-H	SUB BRACKET(R)	
33	PRD30030-36	PAD	x2
34	LL40377-001A-H	SHIELD CASE	
35	QUQ105-1305AA	FFC WIRE	DV/CP104-ME104
36	QUQ105-2609AA	FFC WIRE	DV/CP105-MDA105
37	QUQ105-2004AA	FFC WIRE	DV/CPU106-ME106
38	QUQ105-1804AA	FFC WIRE	MDA113-CAP.M
39	QUQ105-2004AA	FFC WIRE	MDA116-ME116
40	QJJ027-081203	WIRE	DV/CP108-MDA108
41	LL30337-001A-H	SHIELD CASE(MDA)	
42	QQR0490-001	FERRITE CORE	JVC B-SYS/A
42	QQR0490-001	FERRITE CORE	VIDEO-DCDC

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M2MM□□□□

Symbol No.	Part No.	Part Name	Description
43	QQR1177-001	FERRITE CORE	MIC-SYS/AUD
44	QQR1397-001	FERRITE CORE	VIDEO-DVCPU
45	PU49485-3	WIRE CLAMP	
46	PU60010-3	SPACER	SYS/AUD
47	SS47574-005	HOLDER	x4 VIDEO
48	QUQ105-3022AA	FFC WIRE	DVCPU CN102-VID
49	PRD42674	SHIELD CUSHON	x2
50	QUQ105-4518AA	FFC WIRE	DVCPU CN103-SYS
51	WJU0014-001A	FFC WIRE	SYS/AUD CN1
52	QUQ105-2007AA	FFC WIRE	SLOT CN12
53	QUQ105-4507AA	FFC WIRE	SYS/AUD CN7
54	SCV2803-2407B	FFC WIRE	SLOT CN8
55	QUQ105-3320AA	FFC WIRE	VIDEO CN6
56	QJN022-062221	WIRE	DVCPU CN101-REA
57	WJJ0384-001A	WIRE	DCDC CN111
58	QJJ028-021412	WIRE	DCDC CN31
59	QJJ002-142024	WIRE	DCDC CN15
60	QJJ002-102220	WIRE	DCDC CN11
61	QJJ002-082622	WIRE	DCDC CN33
62	WJN0108-001B	WIRE	MIC BOARD–SYS/AUD CN14
63	QJJ031-071821	WIRE	REAR2 CN5
64	QJJ031-082423	WIRE	JVC BUS PWB
65	QJJ027-071824	WIRE	SYS/AUD CN17–RS422
66	WJN0109-001A	WIRE	REAR1 CN19
67	WJZ0111-001A	WIRE	REAR1 CN2,3,4
68	WJN0112-001A	WIRE	SLOT CN21
69	WJJ0392-001A	WIRE	SYS/AUD CN18–RS232C
70	–	LABEL	
71	QUB130-10QLQL	LUG WIRE	
72	LL40363-001A-H	KNOB	x5
73	LL40381-001A-H	LCD BRACKET(L)	
74	LL40390-002A	LABEL	
⚠ 75	PRD44923	CAUTION LABEL	U MODEL
76	PRD43663-01-03	FCC S.LABEL	U MODEL
77	LL40382-001A-H	LCD BRACKET(R)	
78	QLL0086-002	BACK LIGHT	
79	QLD0270-001	LCD MODULE	
S1	QYSDST3006N	SCREW	M3x6 x4
S2	QYSDST3006Z	SCREW	M3x6 x62
S3	QYSDSF2606Z	SCREW	M2.6x6 x2
S4	QYSDST2606Z	SCREW	M2.6x6 x6
S5	PGZ01821	SCREW(9PIN)	E MODEL x2
S5	PGZ01821-02	SCREW(9PIN)	U MODEL x2
S6	QYSDST2614Z	SCREW	M2.6x14 x2
S7	QYSDSF3008Z	SCREW	M3x8 x15
S8	QYSPSP2606Z	SCREW	M2.6x6 x2
S10	QYSPSP3003Z	SCREW	M3x3 x2
S11	PRD44099	SCREW	x2
S12	QYSDSP2004Z	SCREW	M2x4 x2
S13	QYSPSPM2003Z	SCREW	M2x3 x2
W1	QYWLS275306N	WASHER(9PIN)	x2
W2	QYWSS225003N	WASHER	

DRAWING FROM DIRECTION A

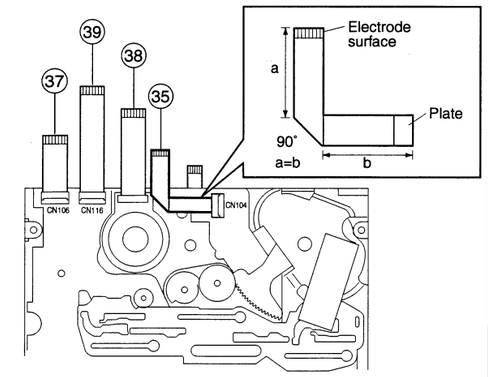


Fig. B

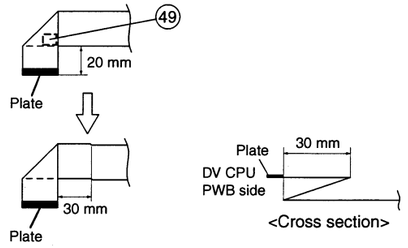


Fig. C

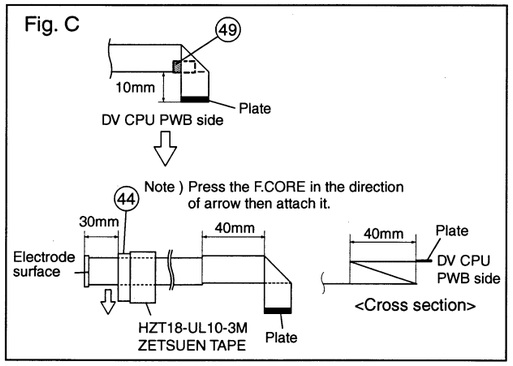


Fig. D

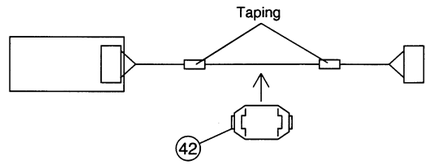


Fig. E

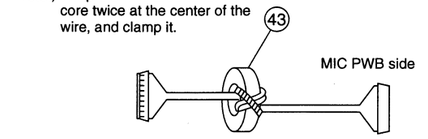


Fig. F

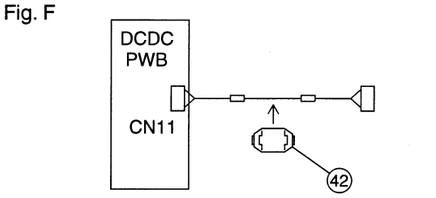
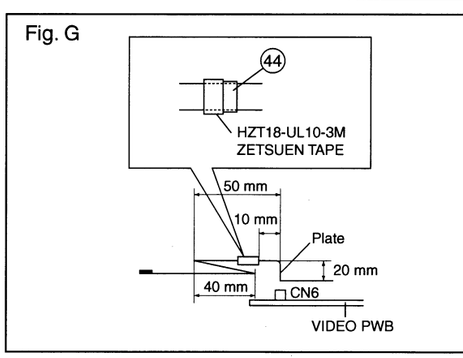


Fig. G



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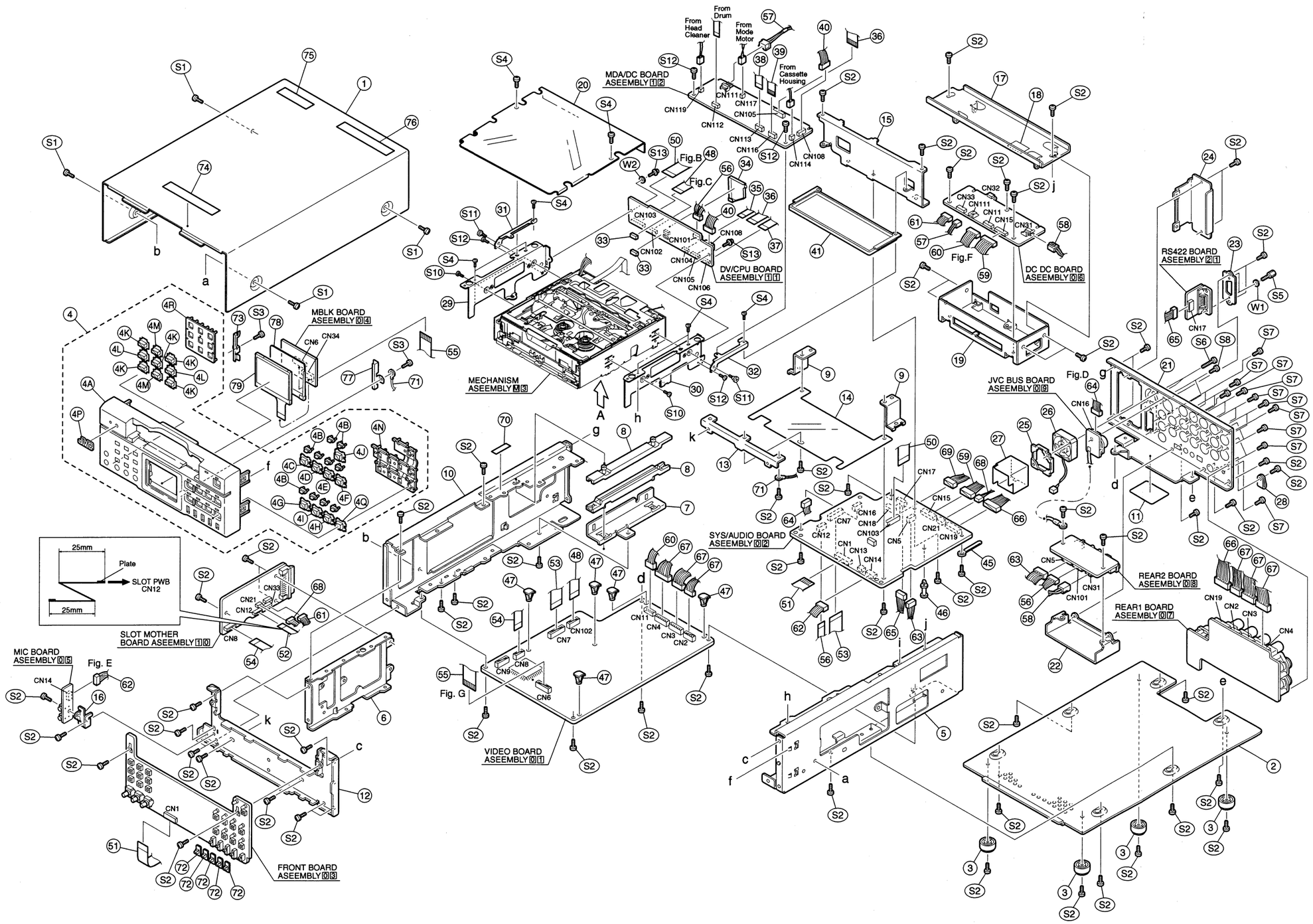
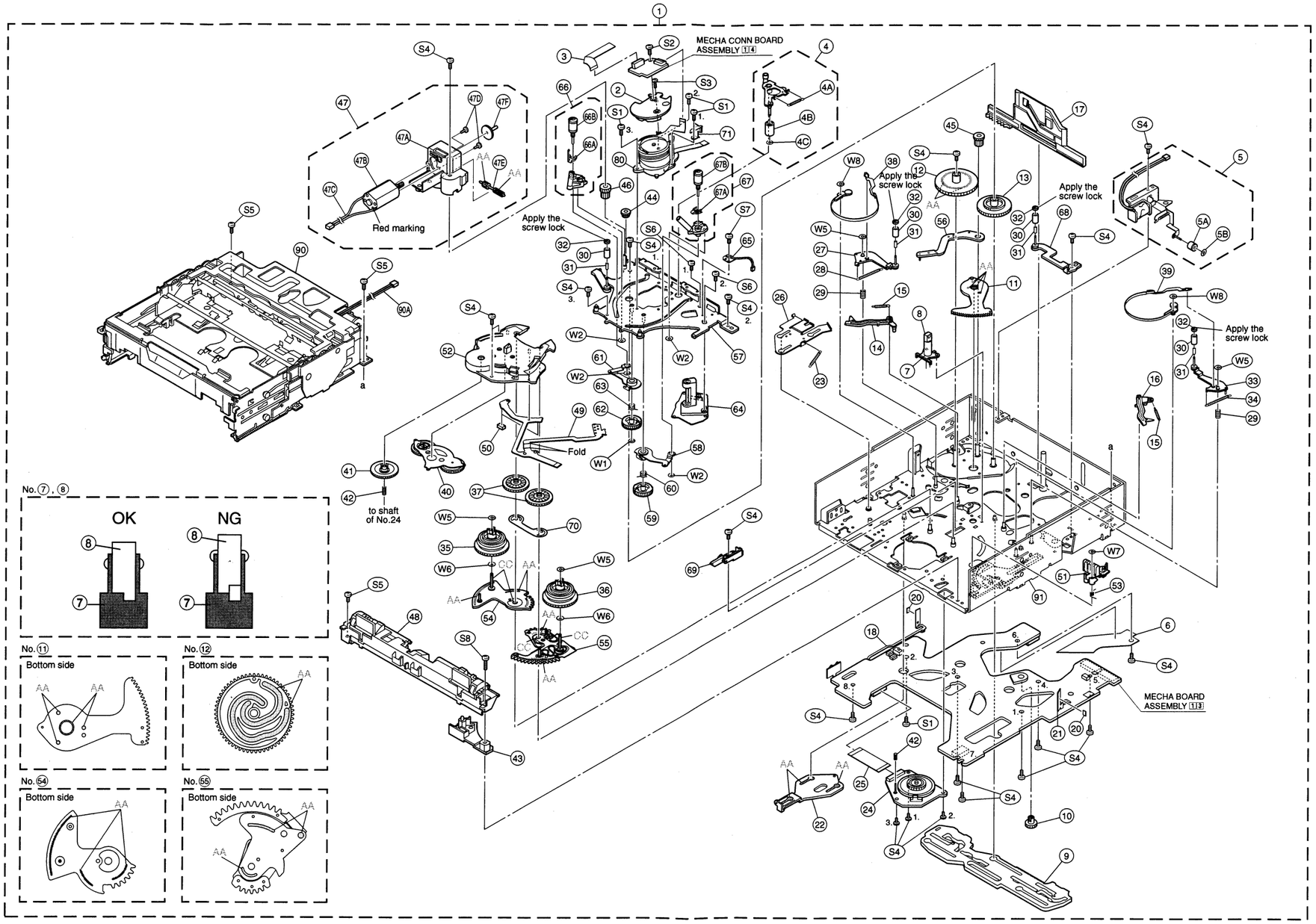
5.1 CABINET & CHASSIS ASSEMBLY M 2



5.2 MECHANISM ASSEMBLY M 3



Classifi-cation	Part No.	Symbol in drawing
Grease	KYODO-SH-P	AA
Oil	YTU94027	CC

NOTES: • This section indicates that the grease and oil are to be applied on locations marked with **AA** and **CC**.
During checking and servicing, check if grease has been applied on the locations marked with **AA** and oil on the locations marked with **CC**.
• Apply also grease in the cam groove of the main cam.

5-4

■ MECHANISM ASSEMBLY PARTS LIST M3

M3MM□□□□

Symbol No.	Part No.	Part Name	Description
1	LL30247-001C	MECHANISM ASSEMBLY	
2	LL20081-001A	TAPE GUARD	
3	WJT0085-001A	FFC WIRE	
4	LL40370-001A	PINCH ROLLER ASSEMBLY	
4A	LL40357-001A	TENSION SPRING	
4B	LL40313-001A	PINCH ROLLER	
4C	LY40382-001A	P.ROLLER CAP	
5	LL40371-001A	H.CLEANER ASS'Y	
5A	LY41249-001A	HEAD CLEANER SA	
5B	QYWDM0802725	SLIT WASHER	
6	LL40341-001A	GUIDE SHEET	
7	LL30257-001A	LED HOLDER	
8	LN59	L.E.D.	
9	LL20071-001A	CTL.PLATE	
10	LL30254-001A	M.SENSOR GEAR	
11	LL30260-001B	ARM GEAR	
12	LL20072-001A	MAIN CAM	
13	LL40241-001A	P.CAM GEAR	
14	LL30258-001A	SUP REEL LOCK	
15	LL40352-001A	TEN.SPRING(R.L)	x2
16	LL30259-001A	TU REEL LOCK	
17	LL30262-001A	PINCH PLATE	
18	NAL0015-001	FPC 2 ASSEMBLY	
20	CPT-230-X	PH.TRANSISTOR	x2
21	NAL0016-001	FPC 3 ASSEMBLY	
22	LL30255-001A	F.LOCK LEVER	
23	LL40351-001A	TEN.SPRING(FLL)	
24	QAR0247-001	REEL MOTOR	
25	WJT0084-001A	FFC	
26	LL30256-001B	SW LEVER	
27	–	SUP TEN.ARM SA.	LL30263-001A **(*1)**
28	LL40259-001B	TEN.SPRING(STA)	
29	LL40362-001A	COMP.SPRING	x2
30	LL40325-001A	GUIDE ROLLER	x4
31	LL40326-001A	COLLAR	x4
32	LL40327-001A	FLANGE	x4
33	–	TU TEN.ARM SA.	LL30265-001B **(*1)**
34	LL40353-001A	TEN.SPRING(TTA)	
35	LL30281-001B	SUP R.DISK ASSY	
36	LL30284-001B	TU R.DISK ASS'Y	
37	LL40261-001A	CONN.GEAR ASS'Y	x2
38	LL40293-001A	SUP T.BAND ASSY	
39	LL40300-001A	TU T.BAND ASS'Y	
40	LL40345-001A	IDLER ARM ASS'Y	
41	LL30272-001A	EMERGENCY GEAR	
42	LL40354-001A	COMP.SPRING(E.G)	
43	LL30303-001A	MIC GUIDE	
44	LL40242-001A	GEAR 1	
45	LL40243-001A	GEAR 2	
46	LL40244-001A	WORM WHEEL 2	
47	LL40245-001A	M.MOTOR ASS'Y	
47A	LL10068-001B	MOTOR BRACKET	
47B	LL40246-001A	MODE MOTOR SA	
47C	WJM0310-001A	WIRE	
47D	QYSPSPL2003Z	SCREW	M2x3

***1 : These parts can not be replaced individually. To replace them, please replace the MECHANISM assembly.**

Symbol No.	Part No.	Part Name	Description
47E	LL40248-001A	WORM ASSEMBLY	
47F	LL40252-001B	E.GEAR(MODE)	
48	LL20087-001B	CA.GUIDE ASS'Y	
49	NAL0014-001A	FPC 1 ASSEMBLY	
50	CNB1001001V1-X	I.C.(PH SENSOR)	x2
51	QNZ0586-001	M.I.C.CONNECTOR	
52	LL10067-001B	IDLE COVER	
53	LL40356-001A	TORSION SPRING	
54	LL40316-001A	S.R.PLATE ASS'Y	
55	LL40319-001A	T.R.PLATE ASS'Y	
56	LL40368-001A	CTL.ARM ASS'Y	
57	–	SUB DECK ASS'Y	LL20076-001B **(*1)**
58	LL40273-001A	TU L.ARM ASS'Y	
59	LL30273-001A	TU L.GEAR	
60	LL40277-001A	T.SPRING(T.L.G)	
61	LL40278-001A	SUP L.ARM ASS'Y	
62	LL30274-001A	SUP L.GEAR	
63	LL40282-001A	T.SPRING(S.L.G)	
64	QAR0248-001	CAPSTAN MOTOR	
65	QSD0006-001	DEW SENSOR	
66	LL30275-001B	SUP P.BASE ASSY	
66A	LL30277-001A	SUP P.B.PLATE	
66B	LL40284-001A	G.ROLLER ASS'Y	
67	LL30278-001A	TU P.BASE ASS'Y	
67A	LL30280-001A	TU P.B.PLATE	
67B	LL40284-001A	G.ROLLER ASS'Y	
68	–	E.G.R.ARM ASS'Y	LL40292-001A **(*1)**
69	LL40324-001B	M.C.B.PIN ASS'Y	
70	LL30306-001A	LEAF PLATE	
71	LL30339-001A	TU TAPE GUARD	
80	YDV2103A	DRUM ASSEMBLY	
90	LL20064-001A	C.HOUSING ASS'Y	
90A	WJM0311-001A	WIRE	
91	–	MAIN DECK ASS'Y	LL20063-001B **(*1)**
S1	QYSPSPU1735N	SCREW	M1.7x3.5 x4
S2	QYSDSG2004N	SCREW	M2x4
S3	QYSPSPU1430M	SCREW	M1.4x3.0
S4	QYSPSPU1725M	SCREW	M1.7x2.5 x14
S5	QYSDSP2005Z	SCREW	M2x5 x3
S6	QYSDSP2003Z	SCREW	M2x3 x2
S7	YQ43893	SCREW	M1.4x2
S8	QYSDSP2012Z	SCREW	M2x12
W1	QYWDL163525	SLIT WASHER	
W2	QYWDM254725	SLIT WASHER	x4
W5	QYWDM082525	SLIT WASHER	x4
W6	QYWFM123025	WASHER	x2
W7	QYWDM082025	SLIT WASHER	
W8	QYWDM123025	SLIT WASHER	x2

***1 : These parts can not be replaced individually. To replace them, please replace the MECHANISM assembly.**

SECTION 6
ELECTRICAL PARTS LIST

SAFETY PRECAUTION:
Parts identified by the ⚠ symbol are critical for safety. Replace only with specified parts numbers.
For maximum reliability and performance, all other replacement parts should be identical to those specified.

NOTE:
- Parts not denoted by parts numbers are not supplied by JVC.
- Abbreviations in this list are as follows:

RESISTORS
In the "Description" column:
All resistance values are in ohms (Ω).
k expresses kilo-ohm (1 000 ohms, kΩ).
M expresses mega-ohm (10^6 ohms, MΩ).

In the "Parts Name"column:
CAR.RESISTOR : Carbon Resistor
C.M.F.RESISTOR : Constant Metalized Film Resistor
COMP.RESISTOR: Composition Resistor
FUSI.RESISTOR : Fusible Resistor
M.F.RESISTOR : Metal Film Resistor
M.G.RESISTOR : Metal Graze Resistor
M.P.RESISTOR : Metal Plate Resistor
O.M.F.RESISTOR : Oxide Metalized Film Resistor
TRIM.RESISTOR : Trimerer Resistor
U.F.RESISTOR : Non-inflammable Resistor
VAL.RESISTOR : Valiable Resistor
W.W.RESISTOR : Wire Wound Resistor

CAPACITORS
In the "Description" column:
All capacitance values are in microfarad (μ F) unless otherwise indicated.
p expresses picofarad (10^{-12} farad,pF).

In the "Parts Name" column:
CER.CAPACITOR : Ceramic Capacitor
E.CAPACITOR : Electrolytic Capacitor
FILM CAPACITOR : Film Capacitor
M.F.CAPACITOR : Metalized Film Capacitor
MICA CAPACITOR : Mica Capacitor
MPP CAPACITOR : Metalized PolyPropylene Capacitor
MPPS CAPACITOR : Metalized PolyPhenylene Sulfied film Capacitor
M.M.CAPACITOR : Metalized Mylar Capacitor
MYLAR CAPACITOR : Mylar Capacitor
N.P.CAPACITOR : Non-Poler electrolytic Capacitor
P.P.CAPACITOR : PolyPropylene Capacitor
PPS CAPACITOR : PolyPhenylene Sulfied film Capacitor
P.S.CAPACITOR : PolyStyrene Capacitor
TAN.CAPACITOR : Tantal Capacitor
TRIM.CAPACITOR : Trimer Capacitor
VAL.CAPACITOR : Valiable Capacitor

Note: In the "Description" column of the parts list, (U) means the parts for the U version while (E) is for the E Version.

Symbol No.	Part No.	Part Name	Description		
IC1	SCV1585-064	I.C.(M)	JVC	(U)	← for U model
	SCV1585-067	I.C.(M)	JVC	(E)	← for E model

6.1 VIDEO BOARD ASSEMBLY PARTS LIST 0 1

LK1175A0C : U model

LK1175E0C : E model 0 1 □ □ □ □ □ □

Symbol No.	Part No.	Part Name	Description
IC1	TC4W53FU-X	I.C.(M)	TOSHIBA
IC2	CXD2064Q	I.C.(M)	SONY
IC3	TC4W53FU-X	I.C.(M)	TOSHIBA
IC4	M51271FP-X	I.C.(M)	MITSUBISHI
IC5	TC4W53FU-X	I.C.(M)	TOSHIBA
IC7	MM1565AF-X	I.C.(M)	MITSUMI
IC8	NJM79L05UA-X	I.C.(M)	JRC
IC201	CD74HC4053PW-X	I.C.(M)	RCA
IC203	UPC4082G2-X	I.C.(M)	NEC
IC204	CD74HC4053PW-X	I.C.(M)	RCA
IC205	TK16031AM-X	I.C.(M)	TOKO DENSHI
IC207	CD74HC4053PW-X	I.C.(M)	RCA
IC208	UPC4082G2-X	I.C.(M)	NEC
IC209	CD74HC4053PW-X	I.C.(M)	RCA
IC210	UPC4082G2-X	I.C.(M)	NEC
IC211	TC4W53FU-X	I.C.(M)	TOSHIBA
IC212	CD74HC4053PW-X	I.C.(M)	RCA
IC213	UPC4082G2-X	I.C.(M)	NEC
IC214	CXA1211M-X	I.C.(M)	SONY
IC215	MM1565AF-X	I.C.(M)	MITSUMI
IC216	NJM79L05UA-X	I.C.(M)	JRC
IC217	TK16031AM-X	I.C.(M)	TOKO DENSHI
IC218	NJM79L05UA-X	I.C.(M)	JRC
IC219	NJM79L05UA-X	I.C.(M)	JRC
IC401	M5216FP-X	I.C.(M)	MITSUBISHI
IC402	M5216FP-X	I.C.(M)	MITSUBISHI
IC403	M5216FP-X	I.C.(M)	MITSUBISHI
IC404	ADC1175CIJM-X	I.C.(M)	NATIONAL SEMICO
IC405	ADC1175CIJM-X	I.C.(M)	NATIONAL SEMICO
IC406	ADC1175CIJM-X	I.C.(M)	NATIONAL SEMICO
IC409	EPF6016AQC208-3	I.C.(M)	ALTERA
IC410	EPC2LC20-019	I.C.(M)	ALTERA (U)
	EPC2LC20-020	I.C.(M)	ALTERA (E)
SK410	NNV0002-020	IC SOCKET	FOR IC410
IC411	SN74AHCT541PW-X	I.C.(M)	TEXAS
IC412	SN74AHC245DGV-X	I.C.(M)	TEXAS
IC413	SN74AHC245DGV-X	I.C.(M)	TEXAS
IC414	SN74AHC245DGV-X	I.C.(M)	TEXAS
IC415	SN74AHC245DGV-X	I.C.(M)	TEXAS
IC416	SN74AHC245DGV-X	I.C.(M)	TEXAS
IC417	SN74AHC245DGV-X	I.C.(M)	TEXAS
IC601	MM1565AF-X	I.C.(M)	MITSUMI
IC602	NJM79L05UA-X	I.C.(M)	JRC
IC603	BA033FP-X	I.C.(M)	ROHM
IC604	ADV7172KST	I.C.(M)	ANALOG DEVICES
IC605	TC7SET08F-X	I.C.(M)	TOSHIBA
IC606	AD817AR-X	I.C.(M)	ANALOG DEVICES
IC607	AD817AR-X	I.C.(M)	ANALOG DEVICES
IC608	AD817AR-X	I.C.(M)	ANALOG DEVICES
IC609	AD817AR-X	I.C.(M)	ANALOG DEVICES
IC610	AD817AR-X	I.C.(M)	ANALOG DEVICES
IC611	AD817AR-X	I.C.(M)	ANALOG DEVICES
IC612	AD817AR-X	I.C.(M)	ANALOG DEVICES
IC613	TC7W53FU-X	I.C.(M)	TOSHIBA
IC614	CD74HC4053PW-X	I.C.(M)	RCA
IC801	MM1565AF-X	I.C.(M)	MITSUMI
IC802	NJM79L05UA-X	I.C.(M)	JRC
IC803	LM1881M-X	I.C.(M)	NATIONAL SEMICO
IC804	TC74VHC221AFT-X	I.C.(M)	TOSHIBA
IC805	TC74VHC123AFT-X	I.C.(M)	TOSHIBA
IC806	TC4W53FU-X	I.C.(M)	TOSHIBA
IC807	TLC2932IPW-X	I.C.(M)	TEXAS
IC808	TC4W53FU-X	I.C.(M)	TOSHIBA
IC809	SN74AHC1GU04K-X	I.C.(M)	TEXAS
IC810	SN74AHC1G04K-X	I.C.(M)	TEXAS
IC811	TC7W53FU-X	I.C.(M)	TOSHIBA
IC812	LM1881M-X	I.C.(M)	NATIONAL SEMICO
IC813	UPC4082G2-X	I.C.(M)	NEC
IC814	TC74VHC221AFT-X	I.C.(M)	TOSHIBA
IC815	TC74VHC221AFT-X	I.C.(M)	TOSHIBA

Symbol No.	Part No.	Part Name	Description
IC816	TC74VHC221AFT-X	I.C.(M)	TOSHIBA
IC817	TLC2932IPW-X	I.C.(M)	TEXAS
IC818	TC4W53FU-X	I.C.(M)	TOSHIBA
IC819	TC4W53FU-X	I.C.(M)	TOSHIBA
IC820	SN74AHC1GU04K-X	I.C.(M)	TEXAS
IC821	SN74AHC1G04K-X	I.C.(M)	TEXAS
IC822	SN74AHCT541PW-X	I.C.(M)	TEXAS
IC823	BU4094BCFV-X	I.C.(M)	ROHM
IC824	BU4094BCFV-X	I.C.(M)	ROHM
IC825	MB88345PF	I.C.(M)	FUJITSU
IC826	UPD6467GR-533-X	I.C.(M)	NEC
IC827	UPD6467GR-533-X	I.C.(M)	NEC
IC828	CD74HC4053PW-X	I.C.(M)	RCA
IC829	CD74HC4053PW-X	I.C.(M)	RCA
IC1001	CXM3004R	I.C.(M)	SONY
Q1	2SA1774/QRS/-X	TRANSISTOR	ROHM
Q2	2SC4617/RS/-X	TRANSISTOR	ROHM
Q3	2SC4617/RS/-X	TRANSISTOR	ROHM
Q4	2SA1774/QRS/-X	TRANSISTOR	ROHM
Q5	2SC4617/RS/-X	TRANSISTOR	ROHM
Q6	2SC4617/RS/-X	TRANSISTOR	ROHM
Q7	2SC4617/RS/-X	TRANSISTOR	ROHM
Q8	2SC4617/RS/-X	TRANSISTOR	ROHM
Q9	2SC4617/RS/-X	TRANSISTOR	ROHM
Q10	2SC4617/RS/-X	TRANSISTOR	ROHM
Q11	2SA1774/QRS/-X	TRANSISTOR	ROHM
Q12	2SC4617/RS/-X	TRANSISTOR	ROHM
Q13	2SC4617/RS/-X	TRANSISTOR	ROHM
Q14	2SC4617/RS/-X	TRANSISTOR	ROHM
Q15	2SC4617/RS/-X	TRANSISTOR	ROHM
Q16	2SA1774/QRS/-X	TRANSISTOR	ROHM
Q17	2SC4617/RS/-X	TRANSISTOR	ROHM
Q18	2SC4617/RS/-X	TRANSISTOR	ROHM
Q19	2SC4617/RS/-X	TRANSISTOR	ROHM
Q21	2SC4617/RS/-X	TRANSISTOR	ROHM
Q22	2SC4617/RS/-X	TRANSISTOR	ROHM
Q23	2SC4617/RS/-X	TRANSISTOR	ROHM
Q24	2SA1774/QRS/-X	TRANSISTOR	ROHM
Q25	2SC4617/RS/-X	TRANSISTOR	ROHM
Q29	2SC4617/RS/-X	TRANSISTOR	ROHM
Q30	2SA1774/QRS/-X	TRANSISTOR	ROHM
Q31	2SC4617/RS/-X	TRANSISTOR	ROHM
Q32	2SC4617/RS/-X	TRANSISTOR	ROHM
Q33	2SA1774/QRS/-X	TRANSISTOR	ROHM
Q34	2SC4617/RS/-X	TRANSISTOR	ROHM
Q35	2SC4617/RS/-X	TRANSISTOR	ROHM
Q36	DTC144EUA-X	TRANSISTOR	ROHM (E)
Q201	2SC4617/RS/-X	TRANSISTOR	ROHM
Q202	2SC4617/RS/-X	TRANSISTOR	ROHM
Q203	2SA1774/QRS/-X	TRANSISTOR	ROHM
Q204	2SC4617/RS/-X	TRANSISTOR	ROHM
Q205	2SC4617/RS/-X	TRANSISTOR	ROHM
Q206	2SC4617/RS/-X	TRANSISTOR	ROHM
Q207	2SA1774/QRS/-X	TRANSISTOR	ROHM
Q208	2SC4617/RS/-X	TRANSISTOR	ROHM
Q209	2SA1774/QRS/-X	TRANSISTOR	ROHM
Q210	2SC4617/RS/-X	TRANSISTOR	ROHM
Q211	2SA1774/QRS/-X	TRANSISTOR	ROHM
Q212	2SC4617/RS/-X	TRANSISTOR	ROHM
Q213	2SC4617/RS/-X	TRANSISTOR	ROHM
Q214	2SA1774/QRS/-X	TRANSISTOR	ROHM
Q215	2SC4617/RS/-X	TRANSISTOR	ROHM
Q216	2SC4617/RS/-X	TRANSISTOR	ROHM
Q217	2SA1774/QRS/-X	TRANSISTOR	ROHM
Q218	2SA1774/QRS/-X	TRANSISTOR	ROHM
Q219	2SC4617/RS/-X	TRANSISTOR	ROHM
Q220	2SC4617/RS/-X	TRANSISTOR	ROHM
Q221	2SA1774/QRS/-X	TRANSISTOR	ROHM
Q222	2SC4617/RS/-X	TRANSISTOR	ROHM
Q223	2SC4617/RS/-X	TRANSISTOR	ROHM
Q224	2SC4617/RS/-X	TRANSISTOR	ROHM

Symbol No.	Part No.	Part Name	Description
Q225	2SA1774/QRS/-X	TRANSISTOR	ROHM
Q226	2SC4617/RS/-X	TRANSISTOR	ROHM
Q227	2SA1774/QRS/-X	TRANSISTOR	ROHM
Q228	2SC4617/RS/-X	TRANSISTOR	ROHM
Q229	2SA1774/QRS/-X	TRANSISTOR	ROHM
Q230	2SC4617/RS/-X	TRANSISTOR	ROHM
Q231	2SC4617/RS/-X	TRANSISTOR	ROHM
Q232	2SA1774/QRS/-X	TRANSISTOR	ROHM
Q233	2SC4617/RS/-X	TRANSISTOR	ROHM
Q234	2SC4617/RS/-X	TRANSISTOR	ROHM
Q235	2SA1774/QRS/-X	TRANSISTOR	ROHM
Q236	2SA1774/QRS/-X	TRANSISTOR	ROHM
Q237	2SC4617/RS/-X	TRANSISTOR	ROHM
Q238	2SC4617/RS/-X	TRANSISTOR	ROHM
Q239	2SA1774/QRS/-X	TRANSISTOR	ROHM
Q240	2SC4617/RS/-X	TRANSISTOR	ROHM
Q241	2SC4617/RS/-X	TRANSISTOR	ROHM
Q242	2SC4617/RS/-X	TRANSISTOR	ROHM
Q243	2SA1774/QRS/-X	TRANSISTOR	ROHM
Q244	2SC4617/RS/-X	TRANSISTOR	ROHM
Q245	2SC4617/RS/-X	TRANSISTOR	ROHM
Q246	2SA1774/QRS/-X	TRANSISTOR	ROHM
Q247	2SC4617/RS/-X	TRANSISTOR	ROHM
Q248	2SC4617/RS/-X	TRANSISTOR	ROHM
Q249	2SC4617/RS/-X	TRANSISTOR	ROHM
Q250	2SA1774/QRS/-X	TRANSISTOR	ROHM
Q251	2SC4617/RS/-X	TRANSISTOR	ROHM
Q253	2SA1774/QRS/-X	TRANSISTOR	ROHM
Q601	2SC4617/RS/-X	TRANSISTOR	ROHM
Q602	2SA1774/QRS/-X	TRANSISTOR	ROHM
Q603	2SC4617/RS/-X	TRANSISTOR	ROHM
Q604	2SA1774/QRS/-X	TRANSISTOR	ROHM
Q605	2SC4617/RS/-X	TRANSISTOR	ROHM
Q606	2SA1774/QRS/-X	TRANSISTOR	ROHM
Q607	2SC4617/RS/-X	TRANSISTOR	ROHM
Q608	2SA1774/QRS/-X	TRANSISTOR	ROHM
Q609	2SA1774/QRS/-X	TRANSISTOR	ROHM
Q610	2SC4617/RS/-X	TRANSISTOR	ROHM
Q611	2SA1774/QRS/-X	TRANSISTOR	ROHM
Q612	2SA1774/QRS/-X	TRANSISTOR	ROHM
Q613	2SC4617/RS/-X	TRANSISTOR	ROHM
Q614	2SA1774/QRS/-X	TRANSISTOR	ROHM
Q615	2SA1774/QRS/-X	TRANSISTOR	ROHM
Q616	2SA1774/QRS/-X	TRANSISTOR	ROHM
Q617	2SA1774/QRS/-X	TRANSISTOR	ROHM
Q618	2SC4617/RS/-X	TRANSISTOR	ROHM
Q619	2SA1774/QRS/-X	TRANSISTOR	ROHM
Q801	2SC4617/RS/-X	TRANSISTOR	ROHM
Q802	2SC4617/RS/-X	TRANSISTOR	ROHM
Q803	2SC4617/RS/-X	TRANSISTOR	ROHM
Q804	2SC4617/RS/-X	TRANSISTOR	ROHM
Q805	2SC4617/RS/-X	TRANSISTOR	ROHM
Q806	2SC4617/RS/-X	TRANSISTOR	ROHM
Q807	2SC4617/RS/-X	TRANSISTOR	ROHM
Q808	2SC4617/RS/-X	TRANSISTOR	ROHM
Q809	2SC4617/RS/-X	TRANSISTOR	ROHM
Q1001	2SA1774/QRS/-X	TRANSISTOR	ROHM
Q1002	DTC144EUA-X	TRANSISTOR	ROHM
Q1003	2SC4626/BC/-X	TRANSISTOR	MATSUSHITA
Q1004	2SA1790/BC/-X	TRANSISTOR	MATSUSHITA
Q1005	2SC4626/BC/-X	TRANSISTOR	MATSUSHITA
Q1006	2SA1790/BC/-X	TRANSISTOR	MATSUSHITA
D1	DAN202U-X	DIODE	ROHM
D3	DAN202U-X	DIODE	ROHM
D201	EC2C01C-X	DIODE ARRAY	SANYO
D202	EC2C01C-X	DIODE ARRAY	SANYO
D203	EC2C01C-X	DIODE ARRAY	SANYO
D401	DA204U-X	DIODE	ROHM
D402	DAP202U-X	DIODE	ROHM
D403	DAN202U-X	DIODE	ROHM
D404	DA204U-X	DIODE	ROHM
D405	DAP202U-X	DIODE	ROHM

Symbol No.	Part No.	Part Name	Description	
D406	DAN202U-X	DIODE	ROHM	
D407	DA204U-X	DIODE	ROHM	
D408	DAP202U-X	DIODE	ROHM	
D409	DAN202U-X	DIODE	ROHM	
D801	DAN202U-X	DIODE	ROHM	
D802	DA204U-X	DIODE	ROHM	
D803	MA335-X	DIODE	MATSUSHITA	
D804	MA335-X	DIODE	MATSUSHITA	
D805	MA335-X	DIODE	MATSUSHITA	
D806	MA335-X	DIODE	MATSUSHITA	
D807	MA335-X	DIODE	MATSUSHITA	
D808	MA335-X	DIODE	MATSUSHITA	
D809	MA335-X	DIODE	MATSUSHITA	
D810	MA335-X	DIODE	MATSUSHITA	
D1001	HZM3.0NB1-X	ZENER DIODE	HITACHI	
D1002	HZM3.9NB2-X	ZENER DIODE	HITACHI	
R1	NRSA63D-151X	M.G.RESISTOR	150	1/16W
R2	NRSA63D-151X	M.G.RESISTOR	150	1/16W
R3	NRSA63J-223X	M.G.RESISTOR	22k	1/16W
R4	NRSA63J-273X	M.G.RESISTOR	27k	1/16W
R5	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R6	NRSA63J-222X	M.G.RESISTOR	2.2k	1/16W
R7	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
R8	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R9	NRSA63D-821X	M.G.RESISTOR	820	1/16W
R10	NRSA63D-471X	M.G.RESISTOR	470	1/16W
R11	NRSA63D-272X	M.G.RESISTOR	2.7k	1/16W
R12	NRSA63D-471X	M.G.RESISTOR	470	1/16W
R13	NRSA63J-393X	M.G.RESISTOR	39k	1/16W
R14	NRSA63J-223X	M.G.RESISTOR	22k	1/16W
R15	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R16	NRSA63J-331X	M.G.RESISTOR	330	1/16W
R17	NRSA63D-821X	M.G.RESISTOR	820	1/16W
R18	NRSA63D-102X	M.G.RESISTOR	1k	1/16W
R19	NRSA63D-222X	M.G.RESISTOR	2.2k	1/16W
R20	NRSA63D-122X	M.G.RESISTOR	1.2k	1/16W
R21	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R22	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R23	NRSA63J-102X	M.G.RESISTOR	1k	1/16W
R24	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
R25	NRSA63J-392X	M.G.RESISTOR	3.9k	1/16W
R26	NRSA63J-681X	M.G.RESISTOR	680	1/16W
R27	NRSA63J-221X	M.G.RESISTOR	220	1/16W
R28	NRSA63J-102X	M.G.RESISTOR	1k	1/16W
R29	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R30	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W (E)
R31	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W (U)
R32	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R34	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R35	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R36	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R37	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R38	NRSA63D-332X	M.G.RESISTOR	3.3k	1/16W
R40	NRSA63D-332X	M.G.RESISTOR	3.3k	1/16W
R41	NRSA63D-182X	M.G.RESISTOR	1.8k	1/16W
R42	NRSA63D-221X	M.G.RESISTOR	220	1/16W
R43	NRSA63D-221X	M.G.RESISTOR	220	1/16W
R44	NRSA63J-331X	M.G.RESISTOR	330	1/16W
R45	NRSA63J-332X	M.G.RESISTOR	3.3k	1/16W
R46	NRSA63J-222X	M.G.RESISTOR	2.2k	1/16W
R47	NRSA63D-102X	M.G.RESISTOR	1k	1/16W
R48	NRSA63D-102X	M.G.RESISTOR	1k	1/16W
R49	NRSA63D-152X	M.G.RESISTOR	1.5k	1/16W
R50	NRSA63D-222X	M.G.RESISTOR	2.2k	1/16W
R51	NRSA63J-331X	M.G.RESISTOR	330	1/16W
R52	NRSA63D-102X	M.G.RESISTOR	1k	1/16W
R54	NRSA63D-561X	M.G.RESISTOR	560	1/16W
R55	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R56	NRSA63J-222X	M.G.RESISTOR	2.2k	1/16W
R57	NRSA63J-222X	M.G.RESISTOR	2.2k	1/16W
R58	NRSA63J-331X	M.G.RESISTOR	330	1/16W
R59	NRSA63J-681X	M.G.RESISTOR	680	1/16W

[VIDEO]

Symbol No.	Part No.	Part Name	Description	
R60	NRSA63J-222X	M.G.RESISTOR	2.2k	1/16W
R61	NRSA63J-102X	M.G.RESISTOR	1k	1/16W
R62	NRSA63J-331X	M.G.RESISTOR	330	1/16W
R63	NRSA63J-122X	M.G.RESISTOR	1.2k	1/16W
R65	NRSA63D-102X	M.G.RESISTOR	1k	1/16W
R66	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R67	NRSA63J-222X	M.G.RESISTOR	2.2k	1/16W
R68	NRSA63J-333X	M.G.RESISTOR	33k	1/16W
R69	NRSA63J-683X	M.G.RESISTOR	68k	1/16W
R70	NRSA63D-151X	M.G.RESISTOR	150	1/16W
R71	NRSA63D-151X	M.G.RESISTOR	150	1/16W
R72	NRSA63J-223X	M.G.RESISTOR	22k	1/16W
R73	NRSA63J-273X	M.G.RESISTOR	27k	1/16W
R74	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R75	NRSA63J-222X	M.G.RESISTOR	2.2k	1/16W
R76	NRSA63J-393X	M.G.RESISTOR	39k	1/16W
R77	NRSA63J-333X	M.G.RESISTOR	33k	1/16W
R78	NRSA63J-102X	M.G.RESISTOR	1k	1/16W
R79	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R80	NRSA63J-181X	M.G.RESISTOR	180	1/16W
R81	NRSA63J-102X	M.G.RESISTOR	1k	1/16W
R82	NRSA63J-471X	M.G.RESISTOR	470	1/16W
R83	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R99	NRSA63J-221X	M.G.RESISTOR	220	1/16W
R100	NRSA63J-221X	M.G.RESISTOR	220	1/16W
R103	NRSA63J-393X	M.G.RESISTOR	39k	1/16W
R104	NRSA63J-473X	M.G.RESISTOR	47k	1/16W
R105	NRSA63J-331X	M.G.RESISTOR	330	1/16W
R106	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R107	NRSA63D-152X	M.G.RESISTOR	1.5k	1/16W
R108	NRSA63D-102X	M.G.RESISTOR	1k	1/16W
R109	NRSA63J-220X	M.G.RESISTOR	22	1/16W
R110	NRSA63J-222X	M.G.RESISTOR	2.2k	1/16W
R111	NRSA63J-393X	M.G.RESISTOR	39k	1/16W
R112	NRSA63J-333X	M.G.RESISTOR	33k	1/16W
R113	NRSA63J-331X	M.G.RESISTOR	330	1/16W
R114	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R115	NRSA63D-222X	M.G.RESISTOR	2.2k	1/16W
R116	NRSA63D-102X	M.G.RESISTOR	1k	1/16W
R117	NRSA63J-220X	M.G.RESISTOR	22	1/16W
R118	NRSA63J-222X	M.G.RESISTOR	2.2k	1/16W
R119	NRSA63D-151X	M.G.RESISTOR	150	1/16W
R120	NRSA63D-151X	M.G.RESISTOR	150	1/16W
R121	NRSA63J-223X	M.G.RESISTOR	22k	1/16W
R122	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R123	NRSA63J-223X	M.G.RESISTOR	22k	1/16W
R129	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R130	NRSA63J-393X	M.G.RESISTOR	39k	1/16W
R131	NRSA63J-473X	M.G.RESISTOR	47k	1/16W
R132	NRSA63J-331X	M.G.RESISTOR	330	1/16W
R133	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R134	NRSA63D-122X	M.G.RESISTOR	1.2k	1/16W
R135	NRSA63D-102X	M.G.RESISTOR	1k	1/16W
R137	NRSA63J-222X	M.G.RESISTOR	2.2k	1/16W
R141	NRSA63J-273X	M.G.RESISTOR	27k	1/16W
R142	NRSA63J-222X	M.G.RESISTOR	2.2k	1/16W
R143	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W (E)
R144	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W (U)
R145	NRSA63J-474X	M.G.RESISTOR	470k	1/16W
R146	NRSA63J-222X	M.G.RESISTOR	2.2k	1/16W
R147	NRSA63J-823X	M.G.RESISTOR	82k	1/16W
R148	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W (E)
R149	NRSA63D-471X	M.G.RESISTOR	470	1/16W
R150	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R151	NRSA63J-223X	M.G.RESISTOR	22k	1/16W (U)
R152	NRSA63D-752X	M.G.RESISTOR	7.5k	1/16W (U)
	NRSA63D-512X	M.G.RESISTOR	5.1k	1/16W (E)
R153	NRSA63D-752X	M.G.RESISTOR	7.5k	1/16W (U)
	NRSA63D-822X	M.G.RESISTOR	8.2k	1/16W (E)
R155	NRSA63J-393X	M.G.RESISTOR	39k	1/16W
R156	NRSA63D-682X	M.G.RESISTOR	6.8k	1/16W
R157	NRSA63D-822X	M.G.RESISTOR	8.2k	1/16W
R158	NRSA63D-203X	M.G.RESISTOR	20k	1/16W

Symbol No.	Part No.	Part Name	Description	
R159	NRSA63J-681X	M.G.RESISTOR	680	1/16W
R160	NRSA63J-102X	M.G.RESISTOR	1k	1/16W
R161	NRSA63J-272X	M.G.RESISTOR	2.7k	1/16W (U)
	NRSA63D-182X	M.G.RESISTOR	1.8k	1/16W (E)
R162	NRSA63J-331X	M.G.RESISTOR	330	1/16W
R163	NRSA63D-510X	M.G.RESISTOR	51	1/16W
R164	NRSA63D-682X	M.G.RESISTOR	6.8k	1/16W
R165	NRSA63D-682X	M.G.RESISTOR	6.8k	1/16W
R167	NRSA63J-153X	M.G.RESISTOR	15k	1/16W
R168	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R169	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R170	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R171	NRSA63J-681X	M.G.RESISTOR	680	1/16W
R172	NRSA63J-333X	M.G.RESISTOR	33k	1/16W
R173	NRSA63D-391X	M.G.RESISTOR	390	1/16W (E)
R201	NRSA63D-151X	M.G.RESISTOR	150	1/16W
R202	NRSA63D-151X	M.G.RESISTOR	150	1/16W
R206	NRSA63J-222X	M.G.RESISTOR	2.2k	1/16W
R207	NRSA63J-393X	M.G.RESISTOR	39k	1/16W
R208	NRSA63J-333X	M.G.RESISTOR	33k	1/16W (U)
	NRSA63J-273X	M.G.RESISTOR	27k	1/16W (E)
R209	NRSA63J-331X	M.G.RESISTOR	330	1/16W
R210	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R211	NRSA63D-182X	M.G.RESISTOR	1.8k	1/16W (U)
	NRSA63D-332X	M.G.RESISTOR	3.3k	1/16W (E)
R212	NRSA63D-102X	M.G.RESISTOR	1k	1/16W
R213	NRSA63J-220X	M.G.RESISTOR	22	1/16W
R214	NRSA63F-1021X	M.G.RESISTOR	1.02k	1/16W
R215	NRSA63D-82R5X	M.G.RESISTOR	82.5	1/16W
R216	NRSA63D-272X	M.G.RESISTOR	2.7k	1/16W
R217	NRSA63J-122X	M.G.RESISTOR	1.2k	1/16W
R218	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R219	NRSA63D-392X	M.G.RESISTOR	3.9k	1/16W
R220	NRSA63J-392X	M.G.RESISTOR	3.9k	1/16W
R221	NRSA63J-682X	M.G.RESISTOR	6.8k	1/16W
R222	NRSA63J-102X	M.G.RESISTOR	1k	1/16W
R223	NRSA63D-303X	M.G.RESISTOR	30k	1/16W
R224	NRSA63D-103X	M.G.RESISTOR	10k	1/16W
R225	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R226	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R227	NRSA63J-222X	M.G.RESISTOR	2.2k	1/16W
R228	NRSA63J-221X	M.G.RESISTOR	220	1/16W
R229	NRSA63J-183X	M.G.RESISTOR	18k	1/16W
R230	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
R231	NRSA63D-682X	M.G.RESISTOR	6.8k	1/16W
R232	NRSA63J-332X	M.G.RESISTOR	3.3k	1/16W (U)
	NRSA63J-103X	M.G.RESISTOR	10k	1/16W (E)
R233	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R234	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R235	NRSA63J-472X	M.G.RESISTOR	4.7k	1/16W
R236	NRSA63J-682X	M.G.RESISTOR	6.8k	1/16W
R237	NRSA63J-473X	M.G.RESISTOR	47k	1/16W
R238	NRSA63J-223X	M.G.RESISTOR	22k	1/16W
R239	NRSA63J-331X	M.G.RESISTOR	330	1/16W
R240	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R241	NRSA63D-272X	M.G.RESISTOR	2.7k	1/16W
R242	NRSA63D-102X	M.G.RESISTOR	1k	1/16W
R243	NRSA63J-220X	M.G.RESISTOR	22	1/16W
R245	NRSA63D-102X	M.G.RESISTOR	1k	1/16W
R246	NRSA63D-102X	M.G.RESISTOR	1k	1/16W
R247	NRSA63D-123X	M.G.RESISTOR	12k	1/16W
R248	NRSA63J-473X	M.G.RESISTOR	47k	1/16W
R249	NRSA63J-223X	M.G.RESISTOR	22k	1/16W
R250	NRSA63J-331X	M.G.RESISTOR	330	1/16W
R251	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R252	NRSA63D-152X	M.G.RESISTOR	1.5k	1/16W
R253	NRSA63D-102X	M.G.RESISTOR	1k	1/16W
R254	NRSA63J-220X	M.G.RESISTOR	22	1/16W
R255	NRSA63J-392X	M.G.RESISTOR	3.9k	1/16W
R256	NRSA63J-392X	M.G.RESISTOR	3.9k	1/16W
R257	NRSA63D-392X	M.G.RESISTOR	3.9k	1/16W
R258	NRSA63D-272X	M.G.RESISTOR	2.7k	1/16W
R259	NRSA63J-472X	M.G.RESISTOR	4.7k	1/16W

Symbol No.	Part No.	Part Name	Description	
R260	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
R261	NRSA63J-561X	M.G.RESISTOR	560	1/16W
R262	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
R263	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
R264	NRSA63J-392X	M.G.RESISTOR	3.9k	1/16W
R265	NRSA63D-151X	M.G.RESISTOR	150	1/16W
R266	NRSA63D-151X	M.G.RESISTOR	150	1/16W
R270	NRSA63J-222X	M.G.RESISTOR	2.2k	1/16W
R271	NRSA63J-393X	M.G.RESISTOR	39k	1/16W
R272	NRSA63J-333X	M.G.RESISTOR	33k	1/16W (U)
	NRSA63J-273X	M.G.RESISTOR	27k	1/16W (E)
R273	NRSA63J-331X	M.G.RESISTOR	330	1/16W
R274	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R275	NRSA63D-182X	M.G.RESISTOR	1.8k	1/16W (U)
	NRSA63D-332X	M.G.RESISTOR	3.3k	1/16W (E)
R276	NRSA63D-102X	M.G.RESISTOR	1k	1/16W
R277	NRSA63J-220X	M.G.RESISTOR	22	1/16W
R278	NRSA63D-82R5X	M.G.RESISTOR	82.5	1/16W
R279	NRSA63F-1021X	M.G.RESISTOR	1.02k	1/16W
R280	NRSA63J-122X	M.G.RESISTOR	1.2k	1/16W
R281	NRSA63D-272X	M.G.RESISTOR	2.7k	1/16W
R282	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R283	NRSA63D-392X	M.G.RESISTOR	3.9k	1/16W
R284	NRSA63J-392X	M.G.RESISTOR	3.9k	1/16W
R285	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R286	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R287	NRSA63J-682X	M.G.RESISTOR	6.8k	1/16W
R288	NRSA63J-102X	M.G.RESISTOR	1k	1/16W
R289	NRSA63D-303X	M.G.RESISTOR	30k	1/16W
R290	NRSA63D-103X	M.G.RESISTOR	10k	1/16W
R291	NRSA63J-222X	M.G.RESISTOR	2.2k	1/16W
R292	NRSA63J-221X	M.G.RESISTOR	220	1/16W
R293	NRSA63J-183X	M.G.RESISTOR	18k	1/16W
R294	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
R295	NRSA63J-332X	M.G.RESISTOR	3.3k	1/16W (U)
	NRSA63J-103X	M.G.RESISTOR	10k	1/16W (E)
R296	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R297	NRSA63D-682X	M.G.RESISTOR	6.8k	1/16W
R298	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R299	NRSA63J-472X	M.G.RESISTOR	4.7k	1/16W
R300	NRSA63J-682X	M.G.RESISTOR	6.8k	1/16W
R301	NRSA63J-473X	M.G.RESISTOR	47k	1/16W
R302	NRSA63J-223X	M.G.RESISTOR	22k	1/16W
R303	NRSA63J-331X	M.G.RESISTOR	330	1/16W
R304	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R305	NRSA63D-272X	M.G.RESISTOR	2.7k	1/16W
R306	NRSA63D-102X	M.G.RESISTOR	1k	1/16W
R307	NRSA63J-220X	M.G.RESISTOR	22	1/16W
R309	NRSA63D-102X	M.G.RESISTOR	1k	1/16W
R310	NRSA63D-102X	M.G.RESISTOR	1k	1/16W
R311	NRSA63D-123X	M.G.RESISTOR	12k	1/16W
R312	NRSA63J-473X	M.G.RESISTOR	47k	1/16W
R313	NRSA63J-223X	M.G.RESISTOR	22k	1/16W
R314	NRSA63J-331X	M.G.RESISTOR	330	1/16W
R315	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R316	NRSA63D-152X	M.G.RESISTOR	1.5k	1/16W
R317	NRSA63D-102X	M.G.RESISTOR	1k	1/16W
R318	NRSA63J-220X	M.G.RESISTOR	22	1/16W
R319	NRSA63J-392X	M.G.RESISTOR	3.9k	1/16W
R320	NRSA63J-392X	M.G.RESISTOR	3.9k	1/16W
R321	NRSA63J-472X	M.G.RESISTOR	4.7k	1/16W
R322	NRSA63D-392X	M.G.RESISTOR	3.9k	1/16W
R323	NRSA63D-272X	M.G.RESISTOR	2.7k	1/16W
R324	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
R325	NRSA63J-561X	M.G.RESISTOR	560	1/16W
R326	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
R327	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
R328	NRSA63J-392X	M.G.RESISTOR	3.9k	1/16W
R329	NRSA63D-151X	M.G.RESISTOR	150	1/16W
R330	NRSA63D-151X	M.G.RESISTOR	150	1/16W
R334	NRSA63J-222X	M.G.RESISTOR	2.2k	1/16W
R335	NRSA63J-393X	M.G.RESISTOR	39k	1/16W
R336	NRSA63J-331X	M.G.RESISTOR	330	1/16W

Symbol No.	Part No.	Part Name	Description	
R337	NRSA63J-333X	M.G.RESISTOR	33k	1/16W
R338	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R339	NRSA63D-122X	M.G.RESISTOR	1.2k	1/16W
R340	NRSA63D-102X	M.G.RESISTOR	1k	1/16W
R341	NRSA63J-220X	M.G.RESISTOR	22	1/16W
R342	NRSA63D-82R5X	M.G.RESISTOR	82.5	1/16W
R343	NRSA63F-1021X	M.G.RESISTOR	1.02k	1/16W
R344	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R345	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R346	NRSA63J-222X	M.G.RESISTOR	2.2k	1/16W
R347	NRSA63J-393X	M.G.RESISTOR	39k	1/16W
R348	NRSA63J-223X	M.G.RESISTOR	22k	1/16W
R349	NRSA63J-331X	M.G.RESISTOR	330	1/16W
R350	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R351	NRSA63D-182X	M.G.RESISTOR	1.8k	1/16W
R352	NRSA63D-102X	M.G.RESISTOR	1k	1/16W
R353	NRSA63J-220X	M.G.RESISTOR	22	1/16W
R355	NRSA63D-272X	M.G.RESISTOR	2.7k	1/16W
R356	NRSA63J-473X	M.G.RESISTOR	47k	1/16W
R357	NRSA63D-471X	M.G.RESISTOR	470	1/16W
R358	NRSA63J-223X	M.G.RESISTOR	22k	1/16W
R359	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R360	NRSA63J-220X	M.G.RESISTOR	22	1/16W
R361	NRSA63J-331X	M.G.RESISTOR	330	1/16W
R362	NRSA63D-821X	M.G.RESISTOR	820	1/16W
R363	NRSA63J-102X	M.G.RESISTOR	1k	1/16W
R364	NRSA63D-221X	M.G.RESISTOR	220	1/16W
R365	NRSA63D-222X	M.G.RESISTOR	2.2k	1/16W
R366	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R367	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R368	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R369	NRSA63J-392X	M.G.RESISTOR	3.9k	1/16W
R371	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R372	NRSA63J-222X	M.G.RESISTOR	2.2k	1/16W
R373	NRSA63J-472X	M.G.RESISTOR	4.7k	1/16W
R374	NRSA63D-392X	M.G.RESISTOR	3.9k	1/16W
R375	NRSA63D-272X	M.G.RESISTOR	2.7k	1/16W
R376	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
R377	NRSA63J-561X	M.G.RESISTOR	560	1/16W
R378	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
R379	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
R380	NRSA63J-222X	M.G.RESISTOR	2.2k	1/16W
R384	NRSA63D-332X	M.G.RESISTOR	3.3k	1/16W
R385	NRSA63D-152X	M.G.RESISTOR	1.5k	1/16W
R386	NRSA63D-681X	M.G.RESISTOR	680	1/16W
R387	NRSA63D-332X	M.G.RESISTOR	3.3k	1/16W
R388	NRSA63D-182X	M.G.RESISTOR	1.8k	1/16W
R389	NRSA63D-562X	M.G.RESISTOR	5.6k	1/16W
R390	NRSA63J-182X	M.G.RESISTOR	1.8k	1/16W
R391	NRSA63J-274X	M.G.RESISTOR	270k	1/16W
R392	NRSA63J-683X	M.G.RESISTOR	68k	1/16W
R393	NRSA63J-222X	M.G.RESISTOR	2.2k	1/16W
R394	NRSA63D-471X	M.G.RESISTOR	470	1/16W
R395	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
R396	NRSA63J-104X	M.G.RESISTOR	100k	1/16W
R401	NRSA63D-103X	M.G.RESISTOR	10k	1/16W
R402	NRSA63D-103X	M.G.RESISTOR	10k	1/16W
R403	NRSA63D-103X	M.G.RESISTOR	10k	1/16W
R404	NRSA63J-100X	M.G.RESISTOR	10	1/16W
R405	NRSA63D-432X	M.G.RESISTOR	4.3k	1/16W
R406	NRSA63D-681X	M.G.RESISTOR	680	1/16W
R407	NRSA63J-100X	M.G.RESISTOR	10	1/16W
R408	NRSA63J-182X	M.G.RESISTOR	1.8k	1/16W
R409	NRSA63J-151X	M.G.RESISTOR	150	1/16W
R410	NRSA63J-182X	M.G.RESISTOR	1.8k	1/16W
R411	NRSA63D-103X	M.G.RESISTOR	10k	1/16W
R412	NRSA63D-103X	M.G.RESISTOR	10k	1/16W
R413	NRSA63D-103X	M.G.RESISTOR	10k	1/16W
R414	NRSA63J-100X	M.G.RESISTOR	10	1/16W
R415	NRSA63D-432X	M.G.RESISTOR	4.3k	1/16W
R416	NRSA63D-681X	M.G.RESISTOR	680	1/16W
R417	NRSA63J-100X	M.G.RESISTOR	10	1/16W
R418	NRSA63J-182X	M.G.RESISTOR	1.8k	1/16W

[VIDEO]

Symbol No.	Part No.	Part Name	Description	
R419	NRSA63J-750X	M.G.RESISTOR	75	1/16W
R420	NRSA63J-182X	M.G.RESISTOR	1.8k	1/16W
R421	NRSA63D-103X	M.G.RESISTOR	10k	1/16W
R422	NRSA63D-103X	M.G.RESISTOR	10k	1/16W
R423	NRSA63D-103X	M.G.RESISTOR	10k	1/16W
R424	NRSA63J-100X	M.G.RESISTOR	10	1/16W
R425	NRSA63D-432X	M.G.RESISTOR	4.3k	1/16W
R426	NRSA63D-681X	M.G.RESISTOR	680	1/16W
R427	NRSA63J-100X	M.G.RESISTOR	10	1/16W
R428	NRSA63J-182X	M.G.RESISTOR	1.8k	1/16W
R429	NRSA63J-750X	M.G.RESISTOR	75	1/16W
R430	NRSA63J-182X	M.G.RESISTOR	1.8k	1/16W
R431	NRSA63J-102X	M.G.RESISTOR	1k	1/16W
R432	NRSA63J-102X	M.G.RESISTOR	1k	1/16W
R433	NRSA63J-330X	M.G.RESISTOR	33	1/16W
R434	NRSA63J-330X	M.G.RESISTOR	33	1/16W
R435	NRSA63J-330X	M.G.RESISTOR	33	1/16W
R436	NRSA63J-330X	M.G.RESISTOR	33	1/16W
R437	NRSA63J-330X	M.G.RESISTOR	33	1/16W
R438	NRSA63J-330X	M.G.RESISTOR	33	1/16W
R439	NRSA63J-330X	M.G.RESISTOR	33	1/16W
R440	NRSA63J-330X	M.G.RESISTOR	33	1/16W
R441	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W (U)
R442	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W (E)
R443	NRSA63J-102X	M.G.RESISTOR	1k	1/16W
R444	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R445	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R446	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R484	NRSA63J-102X	M.G.RESISTOR	1k	1/16W
R485	NRSA63J-102X	M.G.RESISTOR	1k	1/16W
R486	NRSA63J-102X	M.G.RESISTOR	1k	1/16W
R488	NRSA63J-102X	M.G.RESISTOR	1k	1/16W
R489	NRSA63J-102X	M.G.RESISTOR	1k	1/16W
R490	NRSA63J-102X	M.G.RESISTOR	1k	1/16W
R491	NRSA63J-750X	M.G.RESISTOR	75	1/16W
R492	NRSA63J-330X	M.G.RESISTOR	33	1/16W
R493	NRSA63J-330X	M.G.RESISTOR	33	1/16W
R494	NRSA63J-330X	M.G.RESISTOR	33	1/16W
R495	NRSA63J-330X	M.G.RESISTOR	33	1/16W
R496	NRSA63J-330X	M.G.RESISTOR	33	1/16W
R497	NRSA63J-330X	M.G.RESISTOR	33	1/16W
R498	NRSA63J-330X	M.G.RESISTOR	33	1/16W
R499	NRSA63J-330X	M.G.RESISTOR	33	1/16W
R500	NRSA63J-330X	M.G.RESISTOR	33	1/16W
R501	NRSA63J-330X	M.G.RESISTOR	33	1/16W
R502	NRSA63J-330X	M.G.RESISTOR	33	1/16W
R503	NRSA63J-330X	M.G.RESISTOR	33	1/16W
R504	NRSA63J-330X	M.G.RESISTOR	33	1/16W
R506	NRSA63J-473X	M.G.RESISTOR	47k	1/16W
R507	NRSA63J-473X	M.G.RESISTOR	47k	1/16W
R508	NRSA63J-473X	M.G.RESISTOR	47k	1/16W
R509	NRSA63J-473X	M.G.RESISTOR	47k	1/16W
R510	NRSA63J-473X	M.G.RESISTOR	47k	1/16W
R511	NRSA63J-473X	M.G.RESISTOR	47k	1/16W
R512	NRSA63J-473X	M.G.RESISTOR	47k	1/16W
R513	NRSA63J-473X	M.G.RESISTOR	47k	1/16W
R514	NRSA63J-330X	M.G.RESISTOR	33	1/16W
R515	NRSA63J-330X	M.G.RESISTOR	33	1/16W
R516	NRSA63J-330X	M.G.RESISTOR	33	1/16W
R517	NRSA63J-330X	M.G.RESISTOR	33	1/16W
R518	NRSA63J-330X	M.G.RESISTOR	33	1/16W
R519	NRSA63J-330X	M.G.RESISTOR	33	1/16W
R520	NRSA63J-330X	M.G.RESISTOR	33	1/16W
R521	NRSA63J-330X	M.G.RESISTOR	33	1/16W
R522	NRSA63J-330X	M.G.RESISTOR	33	1/16W
R523	NRSA63J-330X	M.G.RESISTOR	33	1/16W
R524	NRSA63J-330X	M.G.RESISTOR	33	1/16W
R525	NRSA63J-330X	M.G.RESISTOR	33	1/16W
R526	NRSA63J-330X	M.G.RESISTOR	33	1/16W
R527	NRSA63J-330X	M.G.RESISTOR	33	1/16W
R528	NRSA63J-330X	M.G.RESISTOR	33	1/16W
R529	NRSA63J-330X	M.G.RESISTOR	33	1/16W

Symbol No.	Part No.	Part Name	Description	
R530	NRSA63J-330X	M.G.RESISTOR	33	1/16W
R531	NRSA63J-330X	M.G.RESISTOR	33	1/16W
R532	NRSA63J-330X	M.G.RESISTOR	33	1/16W
R533	NRSA63J-330X	M.G.RESISTOR	33	1/16W
R534	NRSA63J-330X	M.G.RESISTOR	33	1/16W
R535	NRSA63J-330X	M.G.RESISTOR	33	1/16W
R536	NRSA63J-473X	M.G.RESISTOR	47k	1/16W
R537	NRSA63J-473X	M.G.RESISTOR	47k	1/16W
R538	NRSA63J-473X	M.G.RESISTOR	47k	1/16W
R539	NRSA63J-473X	M.G.RESISTOR	47k	1/16W
R540	NRSA63J-473X	M.G.RESISTOR	47k	1/16W
R541	NRSA63J-473X	M.G.RESISTOR	47k	1/16W
R542	NRSA63J-473X	M.G.RESISTOR	47k	1/16W
R543	NRSA63J-473X	M.G.RESISTOR	47k	1/16W
R544	NRSA63J-473X	M.G.RESISTOR	47k	1/16W
R545	NRSA63J-473X	M.G.RESISTOR	47k	1/16W
R546	NRSA63J-473X	M.G.RESISTOR	47k	1/16W
R547	NRSA63J-473X	M.G.RESISTOR	47k	1/16W
R548	NRSA63J-473X	M.G.RESISTOR	47k	1/16W
R549	NRSA63J-473X	M.G.RESISTOR	47k	1/16W
R550	NRSA63J-473X	M.G.RESISTOR	47k	1/16W
R551	NRSA63J-473X	M.G.RESISTOR	47k	1/16W
R552	NRSA63J-473X	M.G.RESISTOR	47k	1/16W
R553	NRSA63J-473X	M.G.RESISTOR	47k	1/16W
R554	NRSA63J-473X	M.G.RESISTOR	47k	1/16W
R555	NRSA63J-473X	M.G.RESISTOR	47k	1/16W
R556	NRSA63J-330X	M.G.RESISTOR	33	1/16W
R557	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R559	NRSA63J-330X	M.G.RESISTOR	33	1/16W
R560	NRSA63J-750X	M.G.RESISTOR	75	1/16W
R561	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R562	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R563	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R564	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R565	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R566	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R567	NRSA63J-750X	M.G.RESISTOR	75	1/16W
R568	NRSA63J-104X	M.G.RESISTOR	100k	1/16W
R569	NRSA63J-104X	M.G.RESISTOR	100k	1/16W
R570	NRSA63J-104X	M.G.RESISTOR	100k	1/16W
R571	NRSA63J-104X	M.G.RESISTOR	100k	1/16W
R572	NRSA63J-104X	M.G.RESISTOR	100k	1/16W
R573	NRSA63J-104X	M.G.RESISTOR	100k	1/16W
R574	NRSA63J-104X	M.G.RESISTOR	100k	1/16W
R575	NRSA63J-104X	M.G.RESISTOR	100k	1/16W
R576	NRSA63J-104X	M.G.RESISTOR	100k	1/16W
R577	NRSA63J-104X	M.G.RESISTOR	100k	1/16W
R578	NRSA63J-104X	M.G.RESISTOR	100k	1/16W
R580	NRSA63J-102X	M.G.RESISTOR	1k	1/16W
R581	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R582	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R583	NRSA63J-102X	M.G.RESISTOR	1k	1/16W
R584	NRSA63J-102X	M.G.RESISTOR	1k	1/16W
R585	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R586	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R587	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R589	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R590	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R591	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R592	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R593	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R594	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R595	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R596	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R597	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R598	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R599	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R602	NRSA63J-392X	M.G.RESISTOR	3.9k	1/16W
R603	NRSA63J-392X	M.G.RESISTOR	3.9k	1/16W
R604	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R605	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R606	NRSA63D-681X	M.G.RESISTOR	680	1/16W
R607	NRSA63J-151X	M.G.RESISTOR	150	1/16W

Symbol No.	Part No.	Part Name	Description	
R610	NRSA63J-151X	M.G.RESISTOR	150	1/16W
R612	NRSA63J-151X	M.G.RESISTOR	150	1/16W
R614	NRSA63J-151X	M.G.RESISTOR	150	1/16W
R616	NRSA63J-151X	M.G.RESISTOR	150	1/16W
R618	NRSA63J-151X	M.G.RESISTOR	150	1/16W
R621	NRSA63D-681X	M.G.RESISTOR	680	1/16W
R622	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
R623	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
R624	NRSA63J-222X	M.G.RESISTOR	2.2k	1/16W
R625	NRSA63D-102X	M.G.RESISTOR	1k	1/16W
R626	NRSA63D-102X	M.G.RESISTOR	1k	1/16W
R627	NRSA63J-222X	M.G.RESISTOR	2.2k	1/16W
R629	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
R633	NRSA63J-220X	M.G.RESISTOR	22	1/16W
R634	NRSA63D-102X	M.G.RESISTOR	1k	1/16W
R635	NRSA63D-302X	M.G.RESISTOR	3k	1/16W
R636	NRSA63D-151X	M.G.RESISTOR	150	1/16W
R637	NRSA63J-222X	M.G.RESISTOR	2.2k	1/16W
R638	NRSA63D-102X	M.G.RESISTOR	1k	1/16W
R639	NRSA63D-102X	M.G.RESISTOR	1k	1/16W
R640	NRSA63J-222X	M.G.RESISTOR	2.2k	1/16W
R642	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
R644	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R645	NRSA63D-102X	M.G.RESISTOR	1k	1/16W
R646	NRSA63D-302X	M.G.RESISTOR	3k	1/16W
R647	NRSA63D-151X	M.G.RESISTOR	150	1/16W
R648	NRSA63J-222X	M.G.RESISTOR	2.2k	1/16W
R649	NRSA63D-102X	M.G.RESISTOR	1k	1/16W
R650	NRSA63D-102X	M.G.RESISTOR	1k	1/16W
R651	NRSA63J-222X	M.G.RESISTOR	2.2k	1/16W
R653	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
R655	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R656	NRSA63D-302X	M.G.RESISTOR	3k	1/16W
R657	NRSA63D-102X	M.G.RESISTOR	1k	1/16W
R658	NRSA63J-182X	M.G.RESISTOR	1.8k	1/16W
R659	NRSA63J-822X	M.G.RESISTOR	8.2k	1/16W
R660	NRSA63D-151X	M.G.RESISTOR	150	1/16W
R661	NRSA63J-222X	M.G.RESISTOR	2.2k	1/16W
R662	NRSA63D-222X	M.G.RESISTOR	2.2k	1/16W
R663	NRSA63D-182X	M.G.RESISTOR	1.8k	1/16W
R664	NRSA63J-682X	M.G.RESISTOR	6.8k	1/16W
R665	NRSA63D-102X	M.G.RESISTOR	1k	1/16W
R666	NRSA63D-102X	M.G.RESISTOR	1k	1/16W
R667	NRSA63J-222X	M.G.RESISTOR	2.2k	1/16W
R669	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
R671	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R672	NRSA63D-302X	M.G.RESISTOR	3k	1/16W
R673	NRSA63D-102X	M.G.RESISTOR	1k	1/16W
R674	NRSA63D-151X	M.G.RESISTOR	150	1/16W
R675	NRSA63J-222X	M.G.RESISTOR	2.2k	1/16W
R676	NRSA63J-682X	M.G.RESISTOR	6.8k	1/16W
R677	NRSA63D-222X	M.G.RESISTOR	2.2k	1/16W
R678	NRSA63D-102X	M.G.RESISTOR	1k	1/16W
R679	NRSA63D-102X	M.G.RESISTOR	1k	1/16W
R680	NRSA63D-102X	M.G.RESISTOR	1k	1/16W
R681	NRSA63J-222X	M.G.RESISTOR	2.2k	1/16W
R683	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
R685	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R686	NRSA63D-302X	M.G.RESISTOR	3k	1/16W
R687	NRSA63D-102X	M.G.RESISTOR	1k	1/16W
R688	NRSA63D-151X	M.G.RESISTOR	150	1/16W
R689	NRSA63J-222X	M.G.RESISTOR	2.2k	1/16W
R690	NRSA63J-682X	M.G.RESISTOR	6.8k	1/16W
R691	NRSA63D-222X	M.G.RESISTOR	2.2k	1/16W
R692	NRSA63D-751X	M.G.RESISTOR	750	1/16W
R693	NRSA63D-102X	M.G.RESISTOR	1k	1/16W
R694	NRSA63D-102X	M.G.RESISTOR	1k	1/16W
R695	NRSA63J-222X	M.G.RESISTOR	2.2k	1/16W
R697	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
R699	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R700	NRSA63D-302X	M.G.RESISTOR	3k	1/16W
R701	NRSA63D-102X	M.G.RESISTOR	1k	1/16W
R702	NRSA63D-151X	M.G.RESISTOR	150	1/16W

Symbol No.	Part No.	Part Name	Description	
R703	NRSA63D-122X	M.G.RESISTOR	1.2k	1/16W
R704	NRSA63D-392X	M.G.RESISTOR	3.9k	1/16W
R705	NRSA63D-182X	M.G.RESISTOR	1.8k	1/16W
R706	NRSA63D-102X	M.G.RESISTOR	1k	1/16W
R707	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R708	NRSA63D-821X	M.G.RESISTOR	820	1/16W
R709	NRSA63D-222X	M.G.RESISTOR	2.2k	1/16W
R710	NRSA63J-222X	M.G.RESISTOR	2.2k	1/16W
R711	NRSA63J-222X	M.G.RESISTOR	2.2k	1/16W
R712	NRSA63D-102X	M.G.RESISTOR	1k	1/16W
R713	NRSA63D-102X	M.G.RESISTOR	1k	1/16W
R714	NRSA63J-222X	M.G.RESISTOR	2.2k	1/16W
R716	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
R718	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R719	NRSA63D-302X	M.G.RESISTOR	3k	1/16W
R720	NRSA63D-102X	M.G.RESISTOR	1k	1/16W
R721	NRSA63D-151X	M.G.RESISTOR	150	1/16W
R722	NRSA63D-151X	M.G.RESISTOR	150	1/16W
R723	NRSA63D-151X	M.G.RESISTOR	150	1/16W
R724	NRSA63D-151X	M.G.RESISTOR	150	1/16W
R725	NRSA63D-151X	M.G.RESISTOR	150	1/16W
R726	NRSA63D-151X	M.G.RESISTOR	150	1/16W
R727	NRSA63D-151X	M.G.RESISTOR	150	1/16W
R728	NRSA63D-151X	M.G.RESISTOR	150	1/16W
R729	NRSA63J-223X	M.G.RESISTOR	22k	1/16W
R730	NRSA63J-333X	M.G.RESISTOR	33k	1/16W
R733	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R734	NRSA63D-222X	M.G.RESISTOR	2.2k	1/16W
R735	NRSA63D-222X	M.G.RESISTOR	2.2k	1/16W
R736	NRSA63D-222X	M.G.RESISTOR	2.2k	1/16W
R737	NRSA63D-182X	M.G.RESISTOR	1.8k	1/16W
R738	NRSA63D-222X	M.G.RESISTOR	2.2k	1/16W
R739	NRSA63D-122X	M.G.RESISTOR	1.2k	1/16W
R740	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R801	NRSA63D-102X	M.G.RESISTOR	1k	1/16W
R802	NRSA63D-102X	M.G.RESISTOR	1k	1/16W
R803	NRSA63J-332X	M.G.RESISTOR	3.3k	1/16W
R804	NRSA63J-684X	M.G.RESISTOR	680k	1/16W
R805	NRSA63D-473X	M.G.RESISTOR	47k	1/16W
R806	NRSA63D-472X	M.G.RESISTOR	4.7k	1/16W
R807	NRSA63J-184X	M.G.RESISTOR	180k	1/16W
R808	NRSA63J-184X	M.G.RESISTOR	180k	1/16W
R809	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
R810	NRSA63J-273X	M.G.RESISTOR	27k	1/16W
R811	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
R812	NRSA63J-222X	M.G.RESISTOR	2.2k	1/16W
R813	NRSA63J-102X	M.G.RESISTOR	1k	1/16W
R814	NRSA63J-680X	M.G.RESISTOR	68	1/16W
R815	NRSA63J-102X	M.G.RESISTOR	1k	1/16W
R816	NRSA63J-105X	M.G.RESISTOR	1M	1/16W
R817	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
R819	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
R820	NRSA63J-104X	M.G.RESISTOR	100k	1/16W
R821	NRSA63J-222X	M.G.RESISTOR	2.2k	1/16W
R822	NRSA63J-472X	M.G.RESISTOR	4.7k	1/16W
R823	NRSA63D-682X	M.G.RESISTOR	6.8k	1/16W
R824	NRSA63D-331X	M.G.RESISTOR	330	1/16W (U)
	NRSA63D-271X	M.G.RESISTOR	270	1/16W (E)
R825	NRSA63D-682X	M.G.RESISTOR	6.8k	1/16W
R826	NRSA63D-822X	M.G.RESISTOR	8.2k	1/16W
R827	NRSA63D-431X	M.G.RESISTOR	430	1/16W
R828	NRSA63D-223X	M.G.RESISTOR	22k	1/16W
R829	NRSA63D-472X	M.G.RESISTOR	4.7k	1/16W
R830	NRSA63D-153X	M.G.RESISTOR	15k	1/16W
R831	NRSA63J-151X	M.G.RESISTOR	150	1/16W
R832	NRSA63J-151X	M.G.RESISTOR	150	1/16W
R833	NRSA63J-333X	M.G.RESISTOR	33k	1/16W
R834	NRSA63J-473X	M.G.RESISTOR	47k	1/16W
R835	NRSA63J-122X	M.G.RESISTOR	1.2k	1/16W
R836	NRSA63J-122X	M.G.RESISTOR	1.2k	1/16W
R837	NRSA63J-272X	M.G.RESISTOR	2.7k	1/16W
R838	NRSA63J-222X	M.G.RESISTOR	2.2k	1/16W
R839	NRSA63J-101X	M.G.RESISTOR	100	1/16W

[VIDEO]

Symbol No.	Part No.	Part Name	Description	
R840	NRSA63J-272X	M.G.RESISTOR	2.7k	1/16W
R841	NRSA63D-102X	M.G.RESISTOR	1k	1/16W
R842	NRSA63D-102X	M.G.RESISTOR	1k	1/16W
R843	NRSA63J-332X	M.G.RESISTOR	3.3k	1/16W
R844	NRSA63J-684X	M.G.RESISTOR	680k	1/16W
R845	NRSA63D-473X	M.G.RESISTOR	47k	1/16W
R846	NRSA63D-472X	M.G.RESISTOR	4.7k	1/16W
R847	NRSA63D-102X	M.G.RESISTOR	1k	1/16W
R848	NRSA63D-621X	M.G.RESISTOR	620	1/16W
R849	NRSA63D-682X	M.G.RESISTOR	6.8k	1/16W
R850	NRSA63D-822X	M.G.RESISTOR	8.2k	1/16W
R851	NRSA63D-223X	M.G.RESISTOR	22k	1/16W
R852	NRSA63D-431X	M.G.RESISTOR	430	1/16W
R853	NRSA63D-472X	M.G.RESISTOR	4.7k	1/16W
R854	NRSA63D-153X	M.G.RESISTOR	15k	1/16W
R855	NRSA63J-123X	M.G.RESISTOR	12k	1/16W
R856	NRSA63J-223X	M.G.RESISTOR	22k	1/16W
R857	NRSA63J-223X	M.G.RESISTOR	22k	1/16W
R858	NRSA63J-152X	M.G.RESISTOR	1.5k	1/16W
R859	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
R860	NRSA63J-393X	M.G.RESISTOR	39k	1/16W
R861	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
R862	NRSA63J-104X	M.G.RESISTOR	100k	1/16W
R863	NRSA63J-221X	M.G.RESISTOR	220	1/16W
R864	NRSA63J-104X	M.G.RESISTOR	100k	1/16W
R865	NRSA63J-104X	M.G.RESISTOR	100k	1/16W
R866	NRSA63J-220X	M.G.RESISTOR	22	1/16W
R867	NRSA63J-330X	M.G.RESISTOR	33	1/16W
R868	NRSA63J-123X	M.G.RESISTOR	12k	1/16W
R869	NRSA63J-223X	M.G.RESISTOR	22k	1/16W
R870	NRSA63J-223X	M.G.RESISTOR	22k	1/16W
R871	NRSA63J-152X	M.G.RESISTOR	1.5k	1/16W
R872	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
R873	NRSA63J-393X	M.G.RESISTOR	39k	1/16W
R874	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
R875	NRSA63J-104X	M.G.RESISTOR	100k	1/16W
R876	NRSA63J-221X	M.G.RESISTOR	220	1/16W
R877	NRSA63J-104X	M.G.RESISTOR	100k	1/16W
R878	NRSA63J-104X	M.G.RESISTOR	100k	1/16W
R879	NRSA63J-220X	M.G.RESISTOR	22	1/16W
R880	NRSA63J-330X	M.G.RESISTOR	33	1/16W
R881	NRSA63J-222X	M.G.RESISTOR	2.2k	1/16W
R882	NRSA63J-332X	M.G.RESISTOR	3.3k	1/16W
R883	NRSA63J-332X	M.G.RESISTOR	3.3k	1/16W
R884	NRSA63J-332X	M.G.RESISTOR	3.3k	1/16W
R885	NRSA63D-102X	M.G.RESISTOR	1k	1/16W
R886	NRSA63D-102X	M.G.RESISTOR	1k	1/16W
R887	NRSA63D-102X	M.G.RESISTOR	1k	1/16W
R888	NRSA63J-221X	M.G.RESISTOR	220	1/16W
R889	NRSA63J-221X	M.G.RESISTOR	220	1/16W
R890	NRSA63D-102X	M.G.RESISTOR	1k	1/16W
R891	NRSA63D-102X	M.G.RESISTOR	1k	1/16W
R892	NRSA63D-102X	M.G.RESISTOR	1k	1/16W
R893	NRSA63D-102X	M.G.RESISTOR	1k	1/16W
R894	NRSA63D-102X	M.G.RESISTOR	1k	1/16W
R895	NRSA63J-220X	M.G.RESISTOR	22	1/16W
R896	NRSA63J-220X	M.G.RESISTOR	22	1/16W
R897	NRSA63J-220X	M.G.RESISTOR	22	1/16W
R898	NRSA63J-220X	M.G.RESISTOR	22	1/16W
R899	NRSA63J-220X	M.G.RESISTOR	22	1/16W
R901	NRSA63J-223X	M.G.RESISTOR	22k	1/16W
R902	NRSA63J-333X	M.G.RESISTOR	33k	1/16W
R903	NRSA63J-223X	M.G.RESISTOR	22k	1/16W
R904	NRSA63J-333X	M.G.RESISTOR	33k	1/16W
R905	NRSA63J-221X	M.G.RESISTOR	220	1/16W
R906	NRSA63D-102X	M.G.RESISTOR	1k	1/16W
R907	NRSA63D-102X	M.G.RESISTOR	1k	1/16W
R908	NRSA63D-102X	M.G.RESISTOR	1k	1/16W
R909	NRSA63J-222X	M.G.RESISTOR	2.2k	1/16W
R910	NRSA63J-332X	M.G.RESISTOR	3.3k	1/16W
R911	NRSA63J-332X	M.G.RESISTOR	3.3k	1/16W
R912	NRSA63J-332X	M.G.RESISTOR	3.3k	1/16W

Symbol No.	Part No.	Part Name	Description	
R913	NRSA63D-102X	M.G.RESISTOR	1k	1/16W
R914	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R915	NRSA63J-221X	M.G.RESISTOR	220	1/16W
R918	NRSA63J-102X	M.G.RESISTOR	1k	1/16W (E)
R919	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R920	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R922	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R1010	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
R1011	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R1012	NRSA63J-333X	M.G.RESISTOR	33k	1/16W
R1013	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
R1014	NRSA63J-330X	M.G.RESISTOR	33	1/16W
R1015	NRSA63J-330X	M.G.RESISTOR	33	1/16W
R1016	NRSA63J-104X	M.G.RESISTOR	100k	1/16W
R1017	NRSA63J-330X	M.G.RESISTOR	33	1/16W
R1018	NRSA63J-330X	M.G.RESISTOR	33	1/16W
R1019	NRSA63J-100X	M.G.RESISTOR	10	1/16W
R1020	NRSA63J-100X	M.G.RESISTOR	10	1/16W
R1021	NRSA63J-100X	M.G.RESISTOR	10	1/16W
R1022	NRSA63J-100X	M.G.RESISTOR	10	1/16W
R1023	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
R1024	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
R1025	NRSA63J-223X	M.G.RESISTOR	22k	1/16W
R1026	NRSA63J-100X	M.G.RESISTOR	10	1/16W
R1027	NRSA63J-223X	M.G.RESISTOR	22k	1/16W
R1028	NRSA63J-223X	M.G.RESISTOR	22k	1/16W
R1029	NRSA63J-330X	M.G.RESISTOR	33	1/16W
R1032	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R1033	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
VR602	NVP1416-101X	TRIM.RESISTOR	100	LINE Y
VR603	NVP1416-101X	TRIM.RESISTOR	100	Y/C Y
VR604	NVP1416-101X	TRIM.RESISTOR	100	Y/C C
VR605	NVP1416-101X	TRIM.RESISTOR	100	CPN Y
VR606	NVP1416-101X	TRIM.RESISTOR	100	CPN B-Y
VR608	NVP1416-101X	TRIM.RESISTOR	100	CPN R-Y
RA401	NRZ0015-0R0X	RESISTOR ARRAY	0	
RA402	NRZ0015-0R0X	RESISTOR ARRAY	0	
RA403	NRZ0015-0R0X	RESISTOR ARRAY	0	
RA404	NRZ0015-0R0X	RESISTOR ARRAY	0	
RA405	NRZ0015-0R0X	RESISTOR ARRAY	0	
RA406	NRZ0015-0R0X	RESISTOR ARRAY	0	
C1	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C2	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C3	NEH90JM-476X	E.CAPACITOR	47	6.3V
C4	NEH90JM-476X	E.CAPACITOR	47	6.3V
C5	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C6	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C7	NEH90JM-476X	E.CAPACITOR	47	6.3V
C8	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C9	NEH90JM-476X	E.CAPACITOR	47	6.3V
C10	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C11	NEH90JM-476X	E.CAPACITOR	47	6.3V
C12	NDC31HJ-150X	CER.CAPACITOR	15p	50V
C13	NEH90JM-476X	E.CAPACITOR	47	6.3V
C14	NEH90JM-476X	E.CAPACITOR	47	6.3V
C15	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C16	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C17	NEH90JM-476X	E.CAPACITOR	47	6.3V
C18	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C19	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C20	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C21	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C22	NDC31HJ-102X	CER.CAPACITOR	1000p	50V
C23	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C24	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C25	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C26	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C27	NEH90JM-476X	E.CAPACITOR	47	6.3V
C28	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C29	NCB31CK-104X	CER.CAPACITOR	0.1	16V

Symbol No.	Part No.	Part Name	Description	
C30	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C31	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C32	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C33	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C34	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C35	NEH91CM-106X	E.CAPACITOR	10	16V
C36	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C37	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C38	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C39	NEH90JM-476X	E.CAPACITOR	47	6.3V
C40	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C41	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C42	NEH90JM-476X	E.CAPACITOR	47	6.3V
C43	NDC31HJ-100X	CER.CAPACITOR	10p	50V (U)
	NDC31HJ-8R0X	CER.CAPACITOR	8p	50V (E)
C44	NDC31HJ-120X	CER.CAPACITOR	12p	50V
C45	NDC31HJ-220X	CER.CAPACITOR	22p	50V (U)
	NDC31HJ-150X	CER.CAPACITOR	15p	50V (E)
C46	NDC31HJ-180X	CER.CAPACITOR	18p	50V
C48	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C49	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C50	NEH90JM-476X	E.CAPACITOR	47	6.3V
C51	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C52	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C53	NEH90JM-476X	E.CAPACITOR	47	6.3V
C54	NDC31HJ-100X	CER.CAPACITOR	10p	50V (U)
	NDC31HJ-8R0X	CER.CAPACITOR	8p	50V (E)
C55	NDC31HJ-120X	CER.CAPACITOR	12p	50V
C57	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C58	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C59	NEH90JM-476X	E.CAPACITOR	47	6.3V
C60	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C61	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C62	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C63	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C64	NEH90JM-476X	E.CAPACITOR	47	6.3V
C65	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C66	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C67	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C68	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C93	NEH91CM-106X	E.CAPACITOR	10	16V
C94	NEH91CM-106X	E.CAPACITOR	10	16V
C95	NDC31HJ-220X	CER.CAPACITOR	22p	50V
C96	NDC31HJ-220X	CER.CAPACITOR	22p	50V
C97	NEH90JM-476X	E.CAPACITOR	47	6.3V
C98	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C99	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C100	NEH90JM-476X	E.CAPACITOR	47	6.3V
C101	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C102	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C103	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C104	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C105	NEH90JM-476X	E.CAPACITOR	47	6.3V
C106	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C107	NEH90JM-476X	E.CAPACITOR	47	6.3V
C108	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C109	NDC31HJ-101X	CER.CAPACITOR	100p	50V
C110	NEH90JM-476X	E.CAPACITOR	47	6.3V
C111	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C112	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C123	NEH90JM-476X	E.CAPACITOR	47	6.3V
C125	NBE51CM-226X	TAN.CAPACITOR	22	16V
C126	NCB11AK-106X	CER.CAPACITOR	10	10V
C127	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C128	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C130	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C131	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C132	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C133	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C134	NEH90JM-476X	E.CAPACITOR	47	6.3V
C135	NEH91CM-106X	E.CAPACITOR	10	16V
C136	NBE21CM-335X	TAN.CAPACITOR	3.3	16V
C137	NBE21CM-105X	TAN.CAPACITOR	1	16V

Symbol No.	Part No.	Part Name	Description	
C138	NBE21EM-474X	TAN.CAPACITOR	0.47	25V
C139	NCB31CK-473X	CER.CAPACITOR	0.047	16V
C140	NCB31CK-473X	CER.CAPACITOR	0.047	16V
C141	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C142	NDC31HJ-102X	CER.CAPACITOR	1000p	50V
C143	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C144	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C145	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C146	NCB31CK-473X	CER.CAPACITOR	0.047	16V (U)
	NCB31AK-154X	CER.CAPACITOR	0.15	10V (E)
C147	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C148	NEH90JM-476X	E.CAPACITOR	47	6.3V
C149	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C150	NBE51AM-476X	TAN.CAPACITOR	47	10V
C151	NDC31HJ-150X	CER.CAPACITOR	15p	50V
C152	NDC31HJ-102X	CER.CAPACITOR	1000p	50V
C153	NDC31HJ-100X	CER.CAPACITOR	10p	50V
C154	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C155	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C156	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C201	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C202	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C203	NEH90JM-476X	E.CAPACITOR	47	6.3V
C204	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C205	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C206	NEX50JM-566X	E.CAPACITOR	56	6.3V
C208	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C209	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C210	NEH90JM-476X	E.CAPACITOR	47	6.3V
C211	NDC31HJ-220X	CER.CAPACITOR	22p	50V
C212	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C213	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C214	NEH91CM-476X	E.CAPACITOR	47	16V
C217	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C218	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C219	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C220	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C221	NDC31HJ-102X	CER.CAPACITOR	1000p	50V
C222	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C223	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C224	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C225	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C226	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C227	NEH90JM-476X	E.CAPACITOR	47	6.3V
C228	NDC31HJ-220X	CER.CAPACITOR	22p	50V
C229	NEH90JM-476X	E.CAPACITOR	47	6.3V
C230	NDC31HJ-220X	CER.CAPACITOR	22p	50V
C231	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C232	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C233	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C234	NCB11AK-225X	CER.CAPACITOR	2.2	10V
C235	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C236	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C237	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C238	NEH90JM-476X	E.CAPACITOR	47	6.3V
C240	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C241	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C242	NEX50JM-566X	E.CAPACITOR	56	6.3V
C243	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C244	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C245	NEH90JM-476X	E.CAPACITOR	47	6.3V
C246	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C247	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C248	NEH91CM-476X	E.CAPACITOR	47	16V
C251	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C252	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C253	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C254	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C255	NDC31HJ-102X	CER.CAPACITOR	1000p	50V
C256	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C257	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C258	NCB31CK-104X	CER.CAPACITOR	0.1	16V

[VIDEO]

Symbol No.	Part No.	Part Name	Description	
C259	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C260	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C261	NEH90JM-476X	E.CAPACITOR	47	6.3V
C262	NDC31HJ-220X	CER.CAPACITOR	22p	50V
C263	NEH90JM-476X	E.CAPACITOR	47	6.3V
C264	NDC31HJ-220X	CER.CAPACITOR	22p	50V
C265	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C266	NCB11AK-225X	CER.CAPACITOR	2.2	10V
C267	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C268	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C269	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C270	NEH90JM-476X	E.CAPACITOR	47	6.3V
C272	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C273	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C274	NEX50JM-566X	E.CAPACITOR	56	6.3V
C275	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C276	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C277	NEH90JM-476X	E.CAPACITOR	47	6.3V
C278	NDC31HJ-1R0X	CER.CAPACITOR	1p	50V
C279	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C280	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C281	NEH91CM-476X	E.CAPACITOR	47	16V
C282	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C283	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C284	NEH90JM-476X	E.CAPACITOR	47	6.3V
C285	NDC31HJ-1R0X	CER.CAPACITOR	1p	50V
C286	NEH90JM-476X	E.CAPACITOR	47	6.3V
C287	NDC31HJ-150X	CER.CAPACITOR	15p	50V
C288	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C289	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C290	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C291	NCB11AK-106X	CER.CAPACITOR	10	10V
C292	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C293	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C294	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C296	NCB11AK-106X	CER.CAPACITOR	10	10V
C298	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C299	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C313	NEH90JM-476X	E.CAPACITOR	47	6.3V
C314	NDC31HJ-560X	CER.CAPACITOR	56p	50V
C315	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C316	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C317	NEH90JM-476X	E.CAPACITOR	47	6.3V
C318	NDC31HJ-220X	CER.CAPACITOR	22p	50V
C319	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C320	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C321	NDC31HJ-100X	CER.CAPACITOR	10p	50V
C322	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C323	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C324	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C325	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C326	NDC31HJ-101X	CER.CAPACITOR	100p	50V (U)
C327	NDC31HJ-101X	CER.CAPACITOR	100p	50V (U)
C328	NDC31HJ-221X	CER.CAPACITOR	220p	50V
C329	NDC31HJ-221X	CER.CAPACITOR	220p	50V
C332	NDC31HJ-150X	CER.CAPACITOR	15p	50V (U)
C333	NDC31HJ-150X	CER.CAPACITOR	15p	50V (U)
C401	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C402	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C403	NEH90JM-476X	E.CAPACITOR	47	6.3V
C404	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C405	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C406	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C407	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C408	NEH91CM-106X	E.CAPACITOR	10	16V
C409	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C410	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C411	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C414	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C415	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C416	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C417	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C418	NCB31CK-104X	CER.CAPACITOR	0.1	16V

Symbol No.	Part No.	Part Name	Description	
C419	NEH91CM-106X	E.CAPACITOR	10	16V
C420	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C421	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C422	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C425	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C426	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C427	NEH90JM-476X	E.CAPACITOR	47	6.3V
C428	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C429	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C430	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C431	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C432	NEH91CM-106X	E.CAPACITOR	10	16V
C433	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C434	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C435	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C444	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C445	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C446	NEH90JM-476X	E.CAPACITOR	47	6.3V
C447	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C448	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C450	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C451	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C452	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C453	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C454	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C455	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C456	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C457	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C458	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C459	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C460	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C461	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C462	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C463	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C464	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C465	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C466	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C467	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C468	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C469	NEH90JM-476X	E.CAPACITOR	47	6.3V
C470	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C471	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C472	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C473	NDC31HJ-221X	CER.CAPACITOR	220p	50V
C474	NDC31HJ-221X	CER.CAPACITOR	220p	50V
C475	NDC31HJ-471X	CER.CAPACITOR	470p	50V
C476	NDC31HJ-121X	CER.CAPACITOR	120p	50V
C477	NDC31HJ-121X	CER.CAPACITOR	120p	50V
C478	NDC31HJ-121X	CER.CAPACITOR	120p	50V
C479	NDC31HJ-121X	CER.CAPACITOR	120p	50V
C480	NDC31HJ-121X	CER.CAPACITOR	120p	50V
C481	NDC31HJ-121X	CER.CAPACITOR	120p	50V
C482	NDC31HJ-121X	CER.CAPACITOR	120p	50V
C483	NDC31HJ-121X	CER.CAPACITOR	120p	50V
C484	NDC31HJ-121X	CER.CAPACITOR	120p	50V
C485	NDC31HJ-121X	CER.CAPACITOR	120p	50V
C486	NDC31HJ-121X	CER.CAPACITOR	120p	50V
C487	NDC31HJ-121X	CER.CAPACITOR	120p	50V
C488	NDC31HJ-121X	CER.CAPACITOR	120p	50V
C500	NDC31HJ-121X	CER.CAPACITOR	120p	50V
C501	NDC31HJ-221X	CER.CAPACITOR	220p	50V
C502	NDC31HJ-121X	CER.CAPACITOR	120p	50V
C503	NDC31HJ-121X	CER.CAPACITOR	120p	50V
C504	NDC31HJ-121X	CER.CAPACITOR	120p	50V
C601	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C602	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C603	NCB11AK-106X	CER.CAPACITOR	10	10V
C605	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C606	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C608	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C609	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C610	NBE51CM-226X	TAN.CAPACITOR	22	16V
C612	NCB31CK-104X	CER.CAPACITOR	0.1	16V

Symbol No.	Part No.	Part Name	Description
C613	NCB31CK-104X	CER.CAPACITOR	0.1 16V
C614	NCB31CK-104X	CER.CAPACITOR	0.1 16V
C615	NCB31CK-104X	CER.CAPACITOR	0.1 16V
C616	NCB31CK-104X	CER.CAPACITOR	0.1 16V
C617	NCB31CK-104X	CER.CAPACITOR	0.1 16V
C618	NCB31CK-104X	CER.CAPACITOR	0.1 16V
C619	NCB31CK-104X	CER.CAPACITOR	0.1 16V
C620	NCB31CK-104X	CER.CAPACITOR	0.1 16V
C621	NCB31CK-104X	CER.CAPACITOR	0.1 16V
C622	NCB31CK-104X	CER.CAPACITOR	0.1 16V
C623	NCB31CK-104X	CER.CAPACITOR	0.1 16V
C624	NCB31CK-104X	CER.CAPACITOR	0.1 16V
C625	NCB31CK-104X	CER.CAPACITOR	0.1 16V
C626	NEH90JM-476X	E.CAPACITOR	47 6.3V
C627	NCB31CK-104X	CER.CAPACITOR	0.1 16V
C628	NCB31CK-104X	CER.CAPACITOR	0.1 16V
C629	NEH90JM-476X	E.CAPACITOR	47 6.3V
C630	NDC31HJ-100X	CER.CAPACITOR	10p 50V
C631	NDC31HJ-180X	CER.CAPACITOR	18p 50V
C632	NDC31HJ-180X	CER.CAPACITOR	18p 50V
C633	NEH90JM-476X	E.CAPACITOR	47 6.3V
C636	NDC31HJ-100X	CER.CAPACITOR	10p 50V
C637	NCB31CK-104X	CER.CAPACITOR	0.1 16V
C638	NCB31CK-104X	CER.CAPACITOR	0.1 16V
C639	NCB31CK-104X	CER.CAPACITOR	0.1 16V
C640	NCB31CK-104X	CER.CAPACITOR	0.1 16V
C641	NEH90JM-476X	E.CAPACITOR	47 6.3V
C642	NCB31CK-104X	CER.CAPACITOR	0.1 16V
C643	NCB31CK-104X	CER.CAPACITOR	0.1 16V
C644	NEH90JM-476X	E.CAPACITOR	47 6.3V
C645	NDC31HJ-100X	CER.CAPACITOR	10p 50V
C646	NDC31HJ-180X	CER.CAPACITOR	18p 50V
C647	NDC31HJ-180X	CER.CAPACITOR	18p 50V
C648	NEH90JM-476X	E.CAPACITOR	47 6.3V
C649	NDC31HJ-100X	CER.CAPACITOR	10p 50V
C650	NCB31CK-104X	CER.CAPACITOR	0.1 16V
C651	NCB31CK-104X	CER.CAPACITOR	0.1 16V
C652	NCB31CK-104X	CER.CAPACITOR	0.1 16V
C653	NCB31CK-104X	CER.CAPACITOR	0.1 16V
C654	NEH90JM-476X	E.CAPACITOR	47 6.3V
C655	NCB31CK-104X	CER.CAPACITOR	0.1 16V
C656	NCB31CK-104X	CER.CAPACITOR	0.1 16V
C657	NEH90JM-476X	E.CAPACITOR	47 6.3V
C658	NDC31HJ-100X	CER.CAPACITOR	10p 50V
C659	NDC31HJ-180X	CER.CAPACITOR	18p 50V
C660	NDC31HJ-180X	CER.CAPACITOR	18p 50V
C661	NEH90JM-476X	E.CAPACITOR	47 6.3V
C662	NDC31HJ-100X	CER.CAPACITOR	10p 50V
C663	NCB31CK-104X	CER.CAPACITOR	0.1 16V
C664	NCB31CK-104X	CER.CAPACITOR	0.1 16V
C665	NCB31CK-104X	CER.CAPACITOR	0.1 16V
C666	NCB31CK-104X	CER.CAPACITOR	0.1 16V
C667	NCB31CK-104X	CER.CAPACITOR	0.1 16V
C668	NCB31CK-104X	CER.CAPACITOR	0.1 16V
C669	NEH90JM-476X	E.CAPACITOR	47 6.3V
C670	NCB31CK-104X	CER.CAPACITOR	0.1 16V
C671	NCB31CK-104X	CER.CAPACITOR	0.1 16V
C672	NEH90JM-476X	E.CAPACITOR	47 6.3V
C673	NDC31HJ-100X	CER.CAPACITOR	10p 50V
C674	NDC31HJ-180X	CER.CAPACITOR	18p 50V
C675	NDC31HJ-180X	CER.CAPACITOR	18p 50V
C676	NEH90JM-476X	E.CAPACITOR	47 6.3V
C677	NDC31HJ-100X	CER.CAPACITOR	10p 50V
C678	NCB31CK-104X	CER.CAPACITOR	0.1 16V
C679	NCB31CK-104X	CER.CAPACITOR	0.1 16V
C680	NCB31CK-104X	CER.CAPACITOR	0.1 16V
C681	NCB31CK-104X	CER.CAPACITOR	0.1 16V
C682	NEH90JM-476X	E.CAPACITOR	47 6.3V
C683	NCB31CK-104X	CER.CAPACITOR	0.1 16V
C684	NCB31CK-104X	CER.CAPACITOR	0.1 16V
C685	NEH90JM-476X	E.CAPACITOR	47 6.3V
C686	NDC31HJ-100X	CER.CAPACITOR	10p 50V
C687	NDC31HJ-180X	CER.CAPACITOR	18p 50V

Symbol No.	Part No.	Part Name	Description
C688	NDC31HJ-180X	CER.CAPACITOR	18p 50V
C689	NEH90JM-476X	E.CAPACITOR	47 6.3V
C690	NDC31HJ-100X	CER.CAPACITOR	10p 50V
C691	NCB31CK-104X	CER.CAPACITOR	0.1 16V
C692	NCB31CK-104X	CER.CAPACITOR	0.1 16V
C693	NCB31CK-104X	CER.CAPACITOR	0.1 16V
C694	NCB31CK-104X	CER.CAPACITOR	0.1 16V
C695	NEH90JM-476X	E.CAPACITOR	47 6.3V
C696	NCB31CK-104X	CER.CAPACITOR	0.1 16V
C697	NCB31CK-104X	CER.CAPACITOR	0.1 16V
C698	NEH90JM-476X	E.CAPACITOR	47 6.3V
C699	NDC31HJ-100X	CER.CAPACITOR	10p 50V
C700	NDC31HJ-180X	CER.CAPACITOR	18p 50V
C701	NDC31HJ-180X	CER.CAPACITOR	18p 50V
C702	NEH90JM-476X	E.CAPACITOR	47 6.3V
C703	NDC31HJ-100X	CER.CAPACITOR	10p 50V
C704	NCB31CK-104X	CER.CAPACITOR	0.1 16V
C705	NCB31CK-104X	CER.CAPACITOR	0.1 16V
C706	NCB31CK-104X	CER.CAPACITOR	0.1 16V
C707	NCB31CK-104X	CER.CAPACITOR	0.1 16V
C708	NEH90JM-476X	E.CAPACITOR	47 6.3V
C710	NCB31CK-104X	CER.CAPACITOR	0.1 16V
C711	NCB31CK-104X	CER.CAPACITOR	0.1 16V
C712	NEH90JM-476X	E.CAPACITOR	47 6.3V
C713	NCB31CK-104X	CER.CAPACITOR	0.1 16V
C714	NDC31HJ-5R0X	CER.CAPACITOR	5p 50V
C715	NDC31HJ-470X	CER.CAPACITOR	47p 50V
C716	NCB31CK-104X	CER.CAPACITOR	0.1 16V
C717	NCB31CK-104X	CER.CAPACITOR	0.1 16V
C718	NDC31HJ-100X	CER.CAPACITOR	10p 50V
C719	NDC31HJ-180X	CER.CAPACITOR	18p 50V
C720	NDC31HJ-180X	CER.CAPACITOR	18p 50V
C721	NEH90JM-476X	E.CAPACITOR	47 6.3V
C722	NDC31HJ-150X	CER.CAPACITOR	15p 50V
C723	NCB31CK-104X	CER.CAPACITOR	0.1 16V
C724	NCB31CK-104X	CER.CAPACITOR	0.1 16V
C726	NCB31CK-104X	CER.CAPACITOR	0.1 16V
C727	NCB31CK-104X	CER.CAPACITOR	0.1 16V
C728	NDC31HJ-101X	CER.CAPACITOR	100p 50V
C729	NDC31HJ-3R0X	CER.CAPACITOR	3p 50V
C730	NDC31HJ-5R0X	CER.CAPACITOR	5p 50V (U)
	NDC31HJ-4R0X	CER.CAPACITOR	4p 50V (E)
C731	NDC31HJ-5R0X	CER.CAPACITOR	5p 50V (U)
	NDC31HJ-4R0X	CER.CAPACITOR	4p 50V (E)
C732	NDC31HJ-121X	CER.CAPACITOR	120p 50V
C733	NDC31HJ-121X	CER.CAPACITOR	120p 50V
C734	NDC31HJ-121X	CER.CAPACITOR	120p 50V
C801	NCB31CK-104X	CER.CAPACITOR	0.1 16V
C802	NCB31CK-104X	CER.CAPACITOR	0.1 16V
C803	NCB11AK-106X	CER.CAPACITOR	10 10V
C804	NCB31CK-104X	CER.CAPACITOR	0.1 16V
C805	NCB31CK-104X	CER.CAPACITOR	0.1 16V
C807	NDC31HJ-271X	CER.CAPACITOR	270p 50V
C808	NDC31HJ-121X	CER.CAPACITOR	120p 50V
C809	NCB11AK-106X	CER.CAPACITOR	10 10V
C810	NDC31HJ-102X	CER.CAPACITOR	1000p 50V
C811	NDC31HJ-102X	CER.CAPACITOR	1000p 50V
C812	NCB31CK-104X	CER.CAPACITOR	0.1 16V
C813	NDC31HJ-102X	CER.CAPACITOR	1000p 50V
C814	NCB31CK-104X	CER.CAPACITOR	0.1 16V
C815	NCB31HK-103X	CER.CAPACITOR	0.01 50V
C816	NCB31HK-103X	CER.CAPACITOR	0.01 50V
C817	NCB11AK-106X	CER.CAPACITOR	10 10V
C818	NCB11AK-106X	CER.CAPACITOR	10 10V
C819	NCB31CK-104X	CER.CAPACITOR	0.1 16V
C820	NCB31CK-104X	CER.CAPACITOR	0.1 16V
C821	NCB31HK-103X	CER.CAPACITOR	0.01 50V
C822	NCB31CK-104X	CER.CAPACITOR	0.1 16V
C823	NCB31HK-103X	CER.CAPACITOR	0.01 50V
C824	NCB31CK-104X	CER.CAPACITOR	0.1 16V
C825	NCB31CK-104X	CER.CAPACITOR	0.1 16V
C826	NCB31CK-104X	CER.CAPACITOR	0.1 16V
C827	NCB31CK-104X	CER.CAPACITOR	0.1 16V

[VIDEO]

Symbol No.	Part No.	Part Name	Description	
C828	NEH91CM-106X	E.CAPACITOR	10	16V
C829	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C830	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C831	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C832	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C833	NDC31HJ-151X	CER.CAPACITOR	150p	50V
C834	NDC31HJ-271X	CER.CAPACITOR	270p	50V
C835	NEH90JM-476X	E.CAPACITOR	47	6.3V
C836	NEH90JM-476X	E.CAPACITOR	47	6.3V
C837	NDC31HJ-271X	CER.CAPACITOR	270p	50V
C838	NDC31HJ-121X	CER.CAPACITOR	120p	50V
C839	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C840	NDC31HJ-102X	CER.CAPACITOR	1000p	50V
C841	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C842	NDC31HJ-102X	CER.CAPACITOR	1000p	50V
C843	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C844	NDC31HJ-102X	CER.CAPACITOR	1000p	50V
C845	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C846	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C847	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C848	NDC31HJ-151X	CER.CAPACITOR	150p	50V
C849	NDC31HJ-271X	CER.CAPACITOR	270p	50V
C850	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C851	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C852	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C853	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C854	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C855	NCB11AK-106X	CER.CAPACITOR	10	10V
C856	NDC31HJ-102X	CER.CAPACITOR	1000p	50V
C857	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C858	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C859	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C860	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C861	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C862	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C863	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C864	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C865	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C866	NCB11AK-106X	CER.CAPACITOR	10	10V
C867	NDC31HJ-102X	CER.CAPACITOR	1000p	50V
C868	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C869	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C870	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C871	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C872	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C873	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C874	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C875	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C876	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C877	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C878	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C879	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C880	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C881	NDC31HJ-101X	CER.CAPACITOR	100p	50V
C882	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C883	NDC31HJ-101X	CER.CAPACITOR	100p	50V
C884	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C885	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C886	NCB11AK-106X	CER.CAPACITOR	10	10V
C887	NDC31HJ-121X	CER.CAPACITOR	120p	50V
C888	NDC31HJ-121X	CER.CAPACITOR	120p	50V
C1001	NBE41AM-226X	TAN.CAPACITOR	22	10V
C1002	NCB11AK-106X	CER.CAPACITOR	10	10V
C1003	NCB11AK-225X	CER.CAPACITOR	2.2	10V
C1004	NCB31HK-682X	CER.CAPACITOR	6800p	50V
C1005	NCB11AK-106X	CER.CAPACITOR	10	10V
C1006	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C1007	NBE41AM-226X	TAN.CAPACITOR	22	10V
C1008	NCB30JK-105X	CER.CAPACITOR	1	6.3V
C1009	NBE41AM-226X	TAN.CAPACITOR	22	10V
C1010	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C1011	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C1012	NCB11CK-105X	CER.CAPACITOR	1	16V

Symbol No.	Part No.	Part Name	Description	
C1013	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C1014	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C1015	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C1016	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C1017	NEH91CM-106X	E.CAPACITOR	10	16V
C1018	NCB11CK-105X	CER.CAPACITOR	1	16V
C1019	NCB11CK-105X	CER.CAPACITOR	1	16V
C1020	NCB11CK-105X	CER.CAPACITOR	1	16V
C1021	NCB11CK-105X	CER.CAPACITOR	1	16V
C1022	NCB11CK-105X	CER.CAPACITOR	1	16V
C1023	NCB11CK-105X	CER.CAPACITOR	1	16V
C1024	NBE41DM-106X	TAN.CAPACITOR	10	20V
C1025	NCB11CK-105X	CER.CAPACITOR	1	16V
C1026	NCB11CK-105X	CER.CAPACITOR	1	16V
C1027	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C1028	NCB11CK-105X	CER.CAPACITOR	1	16V
C1029	NDC31HJ-121X	CER.CAPACITOR	120p	50V
C1030	NDC31HJ-121X	CER.CAPACITOR	120p	50V
C1034	NDC31HJ-471X	CER.CAPACITOR	470p	50V
C1035	NCB11CK-224X	CER.CAPACITOR	0.22	16V
C1039	NDC31HJ-121X	CER.CAPACITOR	120p	50V
C1040	NDC31HJ-121X	CER.CAPACITOR	120p	50V
C1041	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C1042	NCB31HK-103X	CER.CAPACITOR	0.01	50V
L1	NQL114K-220X	COIL	22uH	
L2	NQL114K-220X	COIL	22uH	
L3	NQL114K-220X	COIL	22uH	
L4	NQL114K-220X	COIL	22uH	
L5	NQL114K-220X	COIL	22uH	
L6	NQL114K-220X	COIL	22uH	
L7	NQL114K-220X	COIL	22uH	
L8	NQL114K-220X	COIL	22uH	
L9	NQL024J-100X	COIL	10uH	
L10	NQL024J-150X	COIL	15uH	(U)
	NQL024J-5R6X	COIL	5.6uH	(E)
L11	NQL024J-100X	COIL	10uH	
L12	NQL024J-150X	COIL	15uH	(U)
	NQL024J-5R6X	COIL	5.6uH	(E)
L13	NQL114K-220X	COIL	22uH	
L14	NQL114K-220X	COIL	22uH	
L16	NQL114K-220X	COIL	22uH	
L17	NQL114K-220X	COIL	22uH	
L19	NQL114K-220X	COIL	22uH	
L20	NQL114K-220X	COIL	22uH	
L21	NQL114K-220X	COIL	22uH	
L201	NQL114K-470X	COIL	47uH	
L202	NQL114K-470X	COIL	47uH	
L203	NQL114K-220X	COIL	22uH	
L204	NQL114K-470X	COIL	47uH	
L205	NQL114K-470X	COIL	47uH	
L206	NQL114K-220X	COIL	22uH	
L207	NQL114K-470X	COIL	47uH	
L208	NQL114K-470X	COIL	47uH	
L209	NQL114K-220X	COIL	22uH	
L210	NQL024J-270X	COIL	27uH	(U)
L211	NQL024J-270X	COIL	27uH	(U)
L401	NQL114K-470X	COIL	47uH	
L402	NQL114K-470X	COIL	47uH	
L403	NQL114K-470X	COIL	47uH	
L404	NQL024J-4R7X	COIL	4.7uH	
L601	NQL114K-220X	COIL	22uH	
L602	NQL114K-220X	COIL	22uH	
L603	NQL114K-220X	COIL	22uH	
L604	NQL024J-150X	COIL	15uH	
L605	NQL024J-150X	COIL	15uH	
L606	NQL114K-220X	COIL	22uH	
L607	NQL114K-220X	COIL	22uH	
L608	NQL024J-150X	COIL	15uH	
L609	NQL024J-150X	COIL	15uH	
L610	NQL114K-220X	COIL	22uH	
L611	NQL114K-220X	COIL	22uH	
L612	NQL024J-150X	COIL	15uH	

Symbol No.	Part No.	Part Name	Description	
L613	NQL024J-150X	COIL	15uH	
L614	NQL114K-220X	COIL	22uH	
L615	NQL114K-220X	COIL	22uH	
L616	NQL024J-150X	COIL	15uH	
L617	NQL024J-150X	COIL	15uH	
L618	NQL114K-220X	COIL	22uH	
L619	NQL114K-220X	COIL	22uH	
L620	NQL024J-150X	COIL	15uH	
L621	NQL024J-150X	COIL	15uH	
L622	NQL114K-220X	COIL	22uH	
L623	NQL114K-220X	COIL	22uH	
L624	NQL024J-150X	COIL	15uH	
L625	NQL024J-150X	COIL	15uH	
L626	NQL114K-220X	COIL	22uH	
L627	NQL024J-330X	COIL	33uH	
L628	NQL024J-150X	COIL	15uH	
L629	NQL024J-150X	COIL	15uH	
L801	NQL114K-220X	COIL	22uH	
L1001	NQL024J-101X	COIL	100uH	
L1002	NQL024J-101X	COIL	100uH	
LC201	NQR0477-001X	LC FILTER		(U)
	NQR0234-001X	LC FILTER		(E)
LC202	NQR0477-001X	LC FILTER		(U)
	NQR0234-001X	LC FILTER		(E)
X1	QAX0017-001	CRYSTAL	14.31818MHz	(U)
	PGZ02043	CRYSTAL		(E)
X801	QAX0124-002	CRYSTAL		
X802	QAX0124-002	CRYSTAL		
CN2	QGA1501C2-08W	CONNECTOR	8PIN	
CN3	QGA1501C2-10W	CONNECTOR	10PIN	
CN4	QGA1501C2-11W	CONNECTOR	11PIN	
CN6	QGF0508C1-33W	CONNECTOR	33PIN	
CN7	QGF0508C1-45W	CONNECTOR	45PIN	
CN8	QGF0508C1-24W	CONNECTOR	24PIN	
CN9	QGF0508C1-33W	CONNECTOR	33PIN	
CN11	QGA1201C2-10X	CONNECTOR	10PIN	
CN102	QGF0508C1-30W	CONNECTOR	30PIN	
CN104	QGA1501C2-06W	CONNECTOR	6PIN	
TP1	NNZ0009-001X	TEST POINT	TP1 TO TP9	
TP14	NNZ0009-001X	TEST POINT	TP14 TO TP16	
TP201	NNZ0009-001X	TEST POINT	TP201 TO TP216	
TP401	NNZ0009-001X	TEST POINT		
TP601	NNZ0009-001X	TEST POINT	TP601 TO TP609	
TP1001	NNZ0009-001X	TEST POINT	TP1001 TO 1010	
FL1	QQR0454-001	FL FILTER		
FL201	QQR0454-001	FL FILTER		
K3	NQR0200-004X	FERRITE BEADS		
K4	NQR0200-004X	FERRITE BEADS		
K5	NQR0200-004X	FERRITE BEADS		
K6	NQR0200-005X	FERRITE BEADS		
K7	NQR0200-004X	FERRITE BEADS		
K201	NQR0200-005X	FERRITE BEADS		
K202	PGZ01994-601Z	FERRITE BEADS		
K203	PGZ01994-601Z	FERRITE BEADS		
K204	NQR0200-004X	FERRITE BEADS		
K404	NQR0200-004X	FERRITE BEADS		
K405	NQR0200-004X	FERRITE BEADS		
K406	NQR0200-004X	FERRITE BEADS		
K407	NQR0200-004X	FERRITE BEADS		
K408	NQR0200-004X	FERRITE BEADS		
K409	NQR0200-004X	FERRITE BEADS		
K410	NQR0200-004X	FERRITE BEADS		
K411	NQR0200-004X	FERRITE BEADS		
K412	NQR0200-004X	FERRITE BEADS		
K413	NQR0200-004X	FERRITE BEADS		

Symbol No.	Part No.	Part Name	Description
K414	NQR0200-004X	FERRITE BEADS	
K415	NQR0200-004X	FERRITE BEADS	
K416	PGZ01994-601Z	FERRITE BEADS	
K417	PGZ01994-601Z	FERRITE BEADS	
K418	PGZ01994-601Z	FERRITE BEADS	
K419	PGZ01994-601Z	FERRITE BEADS	
K602	NQR0200-004X	FERRITE BEADS	
K603	PGZ01994-601Z	FERRITE BEADS	
K604	NQR0200-005X	FERRITE BEADS	
K605	NQR0200-004X	FERRITE BEADS	
K606	PGZ01994-601Z	FERRITE BEADS	
K801	NQR0200-005X	FERRITE BEADS	
K802	NQR0200-005X	FERRITE BEADS	
K803	NQR0200-004X	FERRITE BEADS	
K804	NQR0200-004X	FERRITE BEADS	
K805	NQR0200-004X	FERRITE BEADS	
K806	NQR0200-004X	FERRITE BEADS	
K807	NQR0200-004X	FERRITE BEADS	
K808	NQR0200-004X	FERRITE BEADS	
K809	NQR0200-004X	FERRITE BEADS	
K810	NQR0200-004X	FERRITE BEADS	
K811	NQR0200-004X	FERRITE BEADS	
K812	NQR0200-004X	FERRITE BEADS	
K813	NQR0200-004X	FERRITE BEADS	
K814	NQR0200-004X	FERRITE BEADS	
K815	NQR0200-004X	FERRITE BEADS	
K816	NQR0200-004X	FERRITE BEADS	
K817	PGZ01994-601Z	FERRITE BEADS	
K818	PGZ01994-601Z	FERRITE BEADS	
K819	PGZ01994-601Z	FERRITE BEADS	
K1001	NQR0200-004X	FERRITE BEADS	
K1002	NQR0200-004X	FERRITE BEADS	
K1003	NQR0200-004X	FERRITE BEADS	
K1005	NQR0200-004X	FERRITE BEADS	

6.2 SYS/AUDIO BOARD ASSEMBLY PARTS LIST [0][2]

LK2132A0B [0][2]☐☐☐☐☐☐☐

Symbol No.	Part No.	Part Name	Description
IC1	SN74AHC245DGV-X	I.C.(M)	TEXAS
IC101	M5218AFP-X	I.C.(M)	MITSUBISHI
IC102	M5218AFP-X	I.C.(M)	MITSUBISHI
IC103	TC4W53FU-X	I.C.(M)	TOSHIBA
IC104	BA3314F-X	I.C.(M)	ROHM
IC105	M51132FP-X	I.C.(M)	MITSUBISHI
IC106	M62353GP-X	I.C.(M)	MITSUBISHI
IC107	TC74VHCT08AFT-X	I.C.(M)	TOSHIBA
IC108	AK4552VT-X	I.C.(M)	ASAHI KASEI
IC109	EPM3064AT10-007	I.C.(M)	ALTERA
IC110	AK4363VF-X	I.C.(M)	ASAHI KASEI
IC111	M5218AFP-X	I.C.(M)	MITSUBISHI
IC112	M5218AFP-X	I.C.(M)	MITSUBISHI
IC113	M5218AFP-X	I.C.(M)	MITSUBISHI
IC114	TC4W53FU-X	I.C.(M)	TOSHIBA
IC115	TC4W53FU-X	I.C.(M)	TOSHIBA
IC116	M51132FP-X	I.C.(M)	MITSUBISHI
IC117	M5218AFP-X	I.C.(M)	MITSUBISHI
IC118	TC4052BFT/N/-X	I.C.(M)	TOSHIBA
IC119	M5218AFP-X	I.C.(M)	MITSUBISHI
IC120	BA6138F-X	I.C.(M)	ROHM
IC121	BA6138F-X	I.C.(M)	ROHM
IC122	M5218AFP-X	I.C.(M)	MITSUBISHI
IC123	SN74AHC245DGV-X	I.C.(M)	TEXAS
IC124	AK4552VT-X	I.C.(M)	ASAHI KASEI
IC125	UPC78L12T-W	I.C.(M)	NEC
IC126	SN74AHC1G32K-X	I.C.(M)	TEXAS
IC301	SN74LV126ADGV-X	I.C.(M)	TEXAS
IC302	CD74HC4053PW-X	I.C.(M)	RCA
IC303	SN74LV126ADGV-X	I.C.(M)	TEXAS
IC304	SN74AHCT125PW-X	I.C.(M)	TEXAS
IC305	SN74AHC74PW-X	I.C.(M)	TEXAS
IC306	SN74AHC74PW-X	I.C.(M)	TEXAS
IC307	SN74LV126ADGV-X	I.C.(M)	TEXAS
IC308	SN74AHCT125PW-X	I.C.(M)	TEXAS
IC309	SN74LV125APW-X	I.C.(M)	TEXAS
IC311	DS8922M-X	I.C.(M)	NATIONAL SEMICO
IC312	DS14C232CM-X	I.C.(M)	NATIONAL SEMICO
IC313	SN74LV165ADGV-X	I.C.(M)	TEXAS
IC314	SN74LV165ADGV-X	I.C.(M)	TEXAS
IC315	BU4094BCFV-X	I.C.(M)	ROHM
IC316	BU4094BCFV-X	I.C.(M)	ROHM
IC317	PLSL1153	I.C.(M)	HD64F2239FA16
IC318	NJU7222U30-X	I.C.(M)	JRC
IC319	RN5VD26AA-X	I.C.(M)	RICHO
IC320	SN74AHC1G32K-X	I.C.(M)	TEXAS
IC321	SN74AHC1G32K-X	I.C.(M)	TEXAS
IC322	SN74AHC1GU04K-X	I.C.(M)	TEXAS
IC323	M95320-WMN6-X	I.C.(M)	MITSUBISHI
IC324	SN74CBT3253PW-X	I.C.(M)	TEXAS
IC325	RS5C314-X	I.C.(M)	RICHO
IC326	SN74AHC1GU04K-X	I.C.(M)	TEXAS
IC327	SN74AHCT1G08K-X	I.C.(M)	TEXAS
IC501	PLSL1150	I.C.(M)	HD64F2238RFA13
IC502	RN5VD26AA-X	I.C.(M)	RICHO
IC503	SN74LV126ADGV-X	I.C.(M)	TEXAS
IC504	SN74AHC1G14K-X	I.C.(M)	TEXAS
IC505	SN74AHC2G66U-X	I.C.(M)	TEXAS
IC506	SN74AHC1G14K-X	I.C.(M)	TEXAS
IC507	TC74HC4066AF-X	I.C.(M)	TOSHIBA
IC508	NJU7222U30-X	I.C.(M)	JRC
IC509	NJM79L05UA-X	I.C.(M)	JRC
IC601	NJM319M-X	I.C.(M)	JRC
IC602	SN74AHC1G14K-X	I.C.(M)	TEXAS
IC603	TC74VHC123AFT-X	I.C.(M)	TOSHIBA
IC604	SN74AHC2G74U-X	I.C.(M)	TEXAS
IC605	SN74AHC1G08K-X	I.C.(M)	TEXAS
IC606	CD74HC4053PW-X	I.C.(M)	RCA
IC608	NJM4556AM-XE	I.C.(M)	JRC
Q101	DTC124EUA-X	TRANSISTOR	ROHM
Q102	DTA124EUA-X	TRANSISTOR	ROHM
Q103	DTC323TU-X	TRANSISTOR	ROHM
Q104	DTC323TU-X	TRANSISTOR	ROHM
Q105	DTC323TU-X	TRANSISTOR	ROHM
Q106	DTC323TU-X	TRANSISTOR	ROHM
Q107	DTC124EUA-X	TRANSISTOR	ROHM
Q108	DTA124EUA-X	TRANSISTOR	ROHM
Q109	DTC323TU-X	TRANSISTOR	ROHM
Q110	DTC124EUA-X	TRANSISTOR	ROHM
Q111	DTA124EUA-X	TRANSISTOR	ROHM
Q112	DTC323TU-X	TRANSISTOR	ROHM
Q113	DTC323TU-X	TRANSISTOR	ROHM
Q114	DTC323TU-X	TRANSISTOR	ROHM
Q115	DTC323TU-X	TRANSISTOR	ROHM
Q116	DTC124EUA-X	TRANSISTOR	ROHM
Q120	DTC323TU-X	TRANSISTOR	ROHM
Q121	DTC323TU-X	TRANSISTOR	ROHM
Q122	DTC323TU-X	TRANSISTOR	ROHM
Q123	DTC323TU-X	TRANSISTOR	ROHM
Q124	DTC124EUA-X	TRANSISTOR	ROHM
Q125	DTA124EUA-X	TRANSISTOR	ROHM
Q126	DTC124EUA-X	TRANSISTOR	ROHM
Q127	DTA124EUA-X	TRANSISTOR	ROHM
Q128	DTC323TU-X	TRANSISTOR	ROHM
Q129	DTC323TU-X	TRANSISTOR	ROHM
Q130	DTC323TU-X	TRANSISTOR	ROHM
Q131	DTC323TU-X	TRANSISTOR	ROHM
Q134	DTC323TU-X	TRANSISTOR	ROHM
Q301	DTC144EKA-X	TRANSISTOR	ROHM
Q302	DTC144EKA-X	TRANSISTOR	ROHM
Q303	DTC144EKA-X	TRANSISTOR	ROHM
Q304	DTC144EKA-X	TRANSISTOR	ROHM
Q305	DTC144EKA-X	TRANSISTOR	ROHM
Q306	DTA144EKA-X	TRANSISTOR	ROHM
Q307	DTC144EKA-X	TRANSISTOR	ROHM
Q309	DTC124EUA-X	TRANSISTOR	ROHM
Q310	DTC144EKA-X	TRANSISTOR	ROHM
Q311	DTC144EKA-X	TRANSISTOR	ROHM
Q501	DTC124EUA-X	TRANSISTOR	ROHM
Q502	DTC124EUA-X	TRANSISTOR	ROHM
Q503	DTC124EUA-X	TRANSISTOR	ROHM
Q504	DTC124EUA-X	TRANSISTOR	ROHM
Q505	DTC124EUA-X	TRANSISTOR	ROHM
Q506	DTC124EUA-X	TRANSISTOR	ROHM
Q507	DTC124EUA-X	TRANSISTOR	ROHM
Q508	DTC124EUA-X	TRANSISTOR	ROHM
Q509	DTC124EUA-X	TRANSISTOR	ROHM
D1	MA3160/M/-X	DIODE	MATSUSHITA
D2	MA3160/M/-X	DIODE	MATSUSHITA
D3	MA3160/M/-X	DIODE	MATSUSHITA
D4	MA3160/M/-X	DIODE	MATSUSHITA
D5	MA3160/M/-X	DIODE	MATSUSHITA
D6	MA3160/M/-X	DIODE	MATSUSHITA
D7	MA3160/M/-X	DIODE	MATSUSHITA
D8	MA3160/M/-X	DIODE	MATSUSHITA
D101	DA204U-X	DIODE	ROHM
D102	DA204U-X	DIODE	ROHM
D103	DA204U-X	DIODE	ROHM
D104	DA204U-X	DIODE	ROHM
D301	MA741WK-X	DIODE	MATSUSHITA
D302	MA741WK-X	DIODE	MATSUSHITA
D303	MA741WK-X	DIODE	MATSUSHITA
D501	MA3024-X	ZENER DIODE	MATSUSHITA
D502	MA3024-X	ZENER DIODE	MATSUSHITA
R1	NRSA63J-560X	M.G.RESISTOR	56 1/16W
R2	NRSA63J-560X	M.G.RESISTOR	56 1/16W
R3	NRSA63J-560X	M.G.RESISTOR	56 1/16W
R4	NRSA63J-560X	M.G.RESISTOR	56 1/16W
R5	NRSA63J-560X	M.G.RESISTOR	56 1/16W
R6	NRSA63J-0R0X	M.G.RESISTOR	0 1/16W
R7	NRSA63J-330X	M.G.RESISTOR	33 1/16W
R8	NRSA63J-330X	M.G.RESISTOR	33 1/16W
R9	NRSA63J-330X	M.G.RESISTOR	33 1/16W

Symbol No.	Part No.	Part Name	Description	
R10	NRSA63J-330X	M.G.RESISTOR	33	1/16W
R11	NRSA63J-750X	M.G.RESISTOR	75	1/16W
R12	NRSA63J-750X	M.G.RESISTOR	75	1/16W
R13	NRSA63J-750X	M.G.RESISTOR	75	1/16W
R101	NRSA63J-472X	M.G.RESISTOR	4.7k	1/16W
R102	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
R104	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R105	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
R106	NRSA63J-472X	M.G.RESISTOR	4.7k	1/16W
R107	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
R109	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R110	NRSA63J-473X	M.G.RESISTOR	47k	1/16W
R111	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
R112	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
R113	NRSA63J-473X	M.G.RESISTOR	47k	1/16W
R114	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
R115	NRSA63J-223X	M.G.RESISTOR	22k	1/16W
R116	NRSA63J-473X	M.G.RESISTOR	47k	1/16W
R117	NRSA63J-473X	M.G.RESISTOR	47k	1/16W
R118	NRSA63J-154X	M.G.RESISTOR	150k	1/16W
R119	NRSA63J-100X	M.G.RESISTOR	10	1/16W
R120	NRSA63J-561X	M.G.RESISTOR	560	1/16W
R121	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
R123	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
R124	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R125	NRSA63J-561X	M.G.RESISTOR	560	1/16W
R126	NRSA63J-561X	M.G.RESISTOR	560	1/16W
R127	NRSA63J-330X	M.G.RESISTOR	33	1/16W
R128	NRSA63J-330X	M.G.RESISTOR	33	1/16W
R129	NRSA63J-330X	M.G.RESISTOR	33	1/16W
R130	NRSA63J-104X	M.G.RESISTOR	100k	1/16W
R131	NRSA63J-104X	M.G.RESISTOR	100k	1/16W
R132	NRSA63J-104X	M.G.RESISTOR	100k	1/16W
R133	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R134	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R135	NRSA63J-330X	M.G.RESISTOR	33	1/16W
R136	NRSA63J-330X	M.G.RESISTOR	33	1/16W
R137	NRSA63J-330X	M.G.RESISTOR	33	1/16W
R138	NRSA63J-330X	M.G.RESISTOR	33	1/16W
R139	NRSA63J-330X	M.G.RESISTOR	33	1/16W
R140	NRSA63J-750X	M.G.RESISTOR	75	1/16W
R141	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R143	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R144	NRSA63J-330X	M.G.RESISTOR	33	1/16W
R145	NRSA63J-102X	M.G.RESISTOR	1k	1/16W
R146	NRSA63J-102X	M.G.RESISTOR	1k	1/16W
R147	NRSA63J-330X	M.G.RESISTOR	33	1/16W
R148	NRSA63J-102X	M.G.RESISTOR	1k	1/16W
R149	NRSA63J-102X	M.G.RESISTOR	1k	1/16W
R150	NRSA63J-330X	M.G.RESISTOR	33	1/16W
R151	NRSA63J-330X	M.G.RESISTOR	33	1/16W
R152	NRSA63J-330X	M.G.RESISTOR	33	1/16W
R153	NRSA63J-750X	M.G.RESISTOR	75	1/16W
R154	NRSA63J-512X	M.G.RESISTOR	5.1k	1/16W
R155	NRSA63J-104X	M.G.RESISTOR	100k	1/16W
R156	NRSA63J-393X	M.G.RESISTOR	39k	1/16W
R157	NRSA63J-123X	M.G.RESISTOR	12k	1/16W
R160	NRSA63J-104X	M.G.RESISTOR	100k	1/16W
R161	NRSA63J-393X	M.G.RESISTOR	39k	1/16W
R162	NRSA63J-123X	M.G.RESISTOR	12k	1/16W
R163	NRSA63J-222X	M.G.RESISTOR	2.2k	1/16W
R164	NRSA63J-152X	M.G.RESISTOR	1.5k	1/16W
R165	NRSA63J-105X	M.G.RESISTOR	1M	1/16W
R166	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R168	NRSA63J-222X	M.G.RESISTOR	2.2k	1/16W
R169	NRSA63J-152X	M.G.RESISTOR	1.5k	1/16W
R170	NRSA63J-105X	M.G.RESISTOR	1M	1/16W
R171	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R173	NRSA63J-473X	M.G.RESISTOR	47k	1/16W
R174	NRSA63J-393X	M.G.RESISTOR	39k	1/16W
R175	NRSA63J-123X	M.G.RESISTOR	12k	1/16W
R176	NRSA63J-473X	M.G.RESISTOR	47k	1/16W

Symbol No.	Part No.	Part Name	Description	
R177	NRSA63J-393X	M.G.RESISTOR	39k	1/16W
R178	NRSA63J-123X	M.G.RESISTOR	12k	1/16W
R179	NRSA63J-473X	M.G.RESISTOR	47k	1/16W
R180	NRSA63J-473X	M.G.RESISTOR	47k	1/16W
R181	NRSA63J-473X	M.G.RESISTOR	47k	1/16W
R182	NRSA63J-473X	M.G.RESISTOR	47k	1/16W
R183	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
R184	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
R186	NRSA63J-473X	M.G.RESISTOR	47k	1/16W
R187	NRSA63J-473X	M.G.RESISTOR	47k	1/16W
R188	NRSA63J-473X	M.G.RESISTOR	47k	1/16W
R189	NRSA63J-473X	M.G.RESISTOR	47k	1/16W
R190	NRSA63J-123X	M.G.RESISTOR	12k	1/16W
R191	NRSA63J-912X	M.G.RESISTOR	9.1k	1/16W
R192	NRSA63J-330X	M.G.RESISTOR	33	1/16W
R193	NRSA63J-123X	M.G.RESISTOR	12k	1/16W
R194	NRSA63J-912X	M.G.RESISTOR	9.1k	1/16W
R195	NRSA63J-330X	M.G.RESISTOR	33	1/16W
R196	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
R197	NRSA63J-330X	M.G.RESISTOR	33	1/16W
R198	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
R199	NRSA63J-330X	M.G.RESISTOR	33	1/16W
R200	NRSA63J-473X	M.G.RESISTOR	47k	1/16W
R205	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
R206	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
R207	NRSA63J-472X	M.G.RESISTOR	4.7k	1/16W
R209	NRSA63J-473X	M.G.RESISTOR	47k	1/16W
R210	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
R211	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
R212	NRSA63J-473X	M.G.RESISTOR	47k	1/16W
R213	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
R214	NRSA63J-102X	M.G.RESISTOR	1k	1/16W
R215	NRSA63J-473X	M.G.RESISTOR	47k	1/16W
R216	NRSA63J-473X	M.G.RESISTOR	47k	1/16W
R217	NRSA63D-272X	M.G.RESISTOR	2.7k	1/16W
R218	NRSA63D-122X	M.G.RESISTOR	1.2k	1/16W
R219	NRSA63D-272X	M.G.RESISTOR	2.7k	1/16W
R220	NRSA63D-122X	M.G.RESISTOR	1.2k	1/16W
R221	NRSA63J-155X	M.G.RESISTOR	1.5M	1/16W
R222	NRSA63J-155X	M.G.RESISTOR	1.5M	1/16W
R223	NRSA63J-102X	M.G.RESISTOR	1k	1/16W
R224	NRSA63D-152X	M.G.RESISTOR	1.5k	1/16W
R225	NRSA63D-332X	M.G.RESISTOR	3.3k	1/16W
R226	NRSA63D-152X	M.G.RESISTOR	1.5k	1/16W
R227	NRSA63D-332X	M.G.RESISTOR	3.3k	1/16W
R228	NRSA63D-272X	M.G.RESISTOR	2.7k	1/16W
R229	NRSA63D-122X	M.G.RESISTOR	1.2k	1/16W
R230	NRSA63D-272X	M.G.RESISTOR	2.7k	1/16W
R231	NRSA63D-122X	M.G.RESISTOR	1.2k	1/16W
R232	NRSA63J-155X	M.G.RESISTOR	1.5M	1/16W
R233	NRSA63J-155X	M.G.RESISTOR	1.5M	1/16W
R234	NRSA63J-102X	M.G.RESISTOR	1k	1/16W
R235	NRSA63D-152X	M.G.RESISTOR	1.5k	1/16W
R236	NRSA63D-332X	M.G.RESISTOR	3.3k	1/16W
R237	NRSA63D-152X	M.G.RESISTOR	1.5k	1/16W
R238	NRSA63D-332X	M.G.RESISTOR	3.3k	1/16W
R239	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
R240	NRSA63J-102X	M.G.RESISTOR	1k	1/16W
R241	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
R242	NRSA63J-102X	M.G.RESISTOR	1k	1/16W
R243	NRSA63J-222X	M.G.RESISTOR	2.2k	1/16W
R244	NRSA63J-222X	M.G.RESISTOR	2.2k	1/16W
R245	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R250	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R251	NRSA63J-100X	M.G.RESISTOR	10	1/16W
R252	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R253	NRSA63J-100X	M.G.RESISTOR	10	1/16W
R257	NRSA63J-222X	M.G.RESISTOR	2.2k	1/16W
R258	NRSA63J-152X	M.G.RESISTOR	1.5k	1/16W
R259	NRSA63J-222X	M.G.RESISTOR	2.2k	1/16W
R260	NRSA63J-152X	M.G.RESISTOR	1.5k	1/16W
R261	NRSA63J-152X	M.G.RESISTOR	1.5k	1/16W
R262	NRSA63J-152X	M.G.RESISTOR	1.5k	1/16W

[SYS/AUDIO]

Symbol No.	Part No.	Part Name	Description	
R263	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R265	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R267	NRSA63J-105X	M.G.RESISTOR	1M	1/16W
R268	NRSA63J-105X	M.G.RESISTOR	1M	1/16W
R269	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R270	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R271	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R272	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R273	NRSA63J-330X	M.G.RESISTOR	33	1/16W
R274	NRSA63J-330X	M.G.RESISTOR	33	1/16W
R275	NRSA63J-330X	M.G.RESISTOR	33	1/16W
R276	NRSA63J-330X	M.G.RESISTOR	33	1/16W
R277	NRSA63J-330X	M.G.RESISTOR	33	1/16W
R278	NRSA63J-330X	M.G.RESISTOR	33	1/16W
R279	NRSA63J-330X	M.G.RESISTOR	33	1/16W
R280	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R281	NRSA63J-222X	M.G.RESISTOR	2.2k	1/16W
R282	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
R283	NRSA63J-333X	M.G.RESISTOR	33k	1/16W
R284	NRSA63J-100X	M.G.RESISTOR	10	1/16W
R285	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R286	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R287	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R288	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R289	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R290	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R291	NRSA63J-750X	M.G.RESISTOR	75	1/16W
R292	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R293	NRSA63J-102X	M.G.RESISTOR	1k	1/16W
R294	NRSA63J-102X	M.G.RESISTOR	1k	1/16W
R295	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R296	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R297	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R298	NRSA63J-102X	M.G.RESISTOR	1k	1/16W
R299	NRSA63J-102X	M.G.RESISTOR	1k	1/16W
R301	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R302	NRSA63J-102X	M.G.RESISTOR	1k	1/16W
R303	NRSA63J-102X	M.G.RESISTOR	1k	1/16W
R304	NRSA63J-102X	M.G.RESISTOR	1k	1/16W
R305	NRSA63J-223X	M.G.RESISTOR	22k	1/16W
R306	NRSA63J-102X	M.G.RESISTOR	1k	1/16W
R307	NRSA63J-102X	M.G.RESISTOR	1k	1/16W
R308	NRSA63J-223X	M.G.RESISTOR	22k	1/16W
R309	NRSA63J-223X	M.G.RESISTOR	22k	1/16W
R310	NRSA63J-102X	M.G.RESISTOR	1k	1/16W
R311	NRSA63J-102X	M.G.RESISTOR	1k	1/16W
R312	NRSA63J-102X	M.G.RESISTOR	1k	1/16W
R313	NRSA63J-102X	M.G.RESISTOR	1k	1/16W
R314	NRSA63J-102X	M.G.RESISTOR	1k	1/16W
R315	NRSA63J-102X	M.G.RESISTOR	1k	1/16W
R316	NRSA63J-102X	M.G.RESISTOR	1k	1/16W
R317	NRSA63J-102X	M.G.RESISTOR	1k	1/16W
R318	NRSA63J-102X	M.G.RESISTOR	1k	1/16W
R319	NRSA63J-223X	M.G.RESISTOR	22k	1/16W
R320	NRSA63J-223X	M.G.RESISTOR	22k	1/16W
R321	NRSA63J-223X	M.G.RESISTOR	22k	1/16W
R322	NRSA63J-223X	M.G.RESISTOR	22k	1/16W
R323	NRSA63J-102X	M.G.RESISTOR	1k	1/16W
R324	NRSA63J-102X	M.G.RESISTOR	1k	1/16W
R325	NRSA63J-102X	M.G.RESISTOR	1k	1/16W
R326	NRSA63J-223X	M.G.RESISTOR	22k	1/16W
R327	NRSA63J-102X	M.G.RESISTOR	1k	1/16W
R328	NRSA63J-223X	M.G.RESISTOR	22k	1/16W
R329	NRSA63J-223X	M.G.RESISTOR	22k	1/16W
R330	NRSA63J-221X	M.G.RESISTOR	220	1/16W
R331	NRSA63J-221X	M.G.RESISTOR	220	1/16W
R332	NRSA63J-221X	M.G.RESISTOR	220	1/16W
R333	NRSA63J-223X	M.G.RESISTOR	22k	1/16W
R334	NRSA63J-223X	M.G.RESISTOR	22k	1/16W
R335	NRSA63J-471X	M.G.RESISTOR	470	1/16W
R336	NRSA63J-102X	M.G.RESISTOR	1k	1/16W
R337	NRSA63J-102X	M.G.RESISTOR	1k	1/16W
R338	NRSA63J-222X	M.G.RESISTOR	2.2k	1/16W

Symbol No.	Part No.	Part Name	Description	
R339	NRSA63J-223X	M.G.RESISTOR	22k	1/16W
R340	NRSA63J-102X	M.G.RESISTOR	1k	1/16W
R341	NRSA63J-223X	M.G.RESISTOR	22k	1/16W
R342	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
R343	NRSA63J-221X	M.G.RESISTOR	220	1/16W
R344	NRSA63J-223X	M.G.RESISTOR	22k	1/16W
R345	NRSA63J-223X	M.G.RESISTOR	22k	1/16W
R346	NRSA63J-223X	M.G.RESISTOR	22k	1/16W
R347	NRSA63J-223X	M.G.RESISTOR	22k	1/16W
R348	NRSA63J-332X	M.G.RESISTOR	3.3k	1/16W
R349	NRSA63J-223X	M.G.RESISTOR	22k	1/16W
R350	NRSA63J-333X	M.G.RESISTOR	33k	1/16W
R351	NRSA63J-102X	M.G.RESISTOR	1k	1/16W
R352	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
R353	NRSA63J-102X	M.G.RESISTOR	1k	1/16W
R354	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
R355	NRSA63J-332X	M.G.RESISTOR	3.3k	1/16W
R356	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R357	NRSA63J-333X	M.G.RESISTOR	33k	1/16W
R358	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R359	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R360	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R361	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R362	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R363	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R364	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R365	NRSA63J-102X	M.G.RESISTOR	1k	1/16W
R366	NRSA63J-222X	M.G.RESISTOR	2.2k	1/16W
R367	NRSA63J-102X	M.G.RESISTOR	1k	1/16W
R373	NRSA63J-223X	M.G.RESISTOR	22k	1/16W
R374	NRSA63J-472X	M.G.RESISTOR	4.7k	1/16W
R375	NRSA63J-223X	M.G.RESISTOR	22k	1/16W
R376	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R377	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R378	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R379	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R380	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R381	NRSA63J-223X	M.G.RESISTOR	22k	1/16W
R383	NRSA63J-223X	M.G.RESISTOR	22k	1/16W
R384	NRSA63J-223X	M.G.RESISTOR	22k	1/16W
R385	NRSA63J-223X	M.G.RESISTOR	22k	1/16W
R386	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R387	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R388	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R390	NRSA63J-223X	M.G.RESISTOR	22k	1/16W
R391	NRSA63J-223X	M.G.RESISTOR	22k	1/16W
R392	NRSA63J-474X	M.G.RESISTOR	470k	1/16W
R393	NRSA63J-223X	M.G.RESISTOR	22k	1/16W
R394	NRSA63J-102X	M.G.RESISTOR	1k	1/16W
R395	NRSA63J-223X	M.G.RESISTOR	22k	1/16W
R396	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
R397	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R398	NRSA63J-102X	M.G.RESISTOR	1k	1/16W
R399	NRSA63J-102X	M.G.RESISTOR	1k	1/16W
R400	NRSA63J-471X	M.G.RESISTOR	470	1/16W
R401	NRSA63J-223X	M.G.RESISTOR	22k	1/16W
R402	NRSA63J-223X	M.G.RESISTOR	22k	1/16W
R403	NRSA63J-222X	M.G.RESISTOR	2.2k	1/16W
R404	NRSA63J-222X	M.G.RESISTOR	2.2k	1/16W
R405	NRSA63J-222X	M.G.RESISTOR	2.2k	1/16W
R406	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
R407	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R408	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R409	NRSA63J-102X	M.G.RESISTOR	1k	1/16W
R410	NRSA63J-102X	M.G.RESISTOR	1k	1/16W
R411	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
R412	NRSA63J-102X	M.G.RESISTOR	1k	1/16W
R413	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R414	NRSA63J-223X	M.G.RESISTOR	22k	1/16W
R416	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R417	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R418	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R419	NRSA63J-101X	M.G.RESISTOR	100	1/16W

Symbol No.	Part No.	Part Name	Description	
R420	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R421	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R422	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R423	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R424	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R425	NRSA63J-223X	M.G.RESISTOR	22k	1/16W
R426	NRSA63J-223X	M.G.RESISTOR	22k	1/16W
R501	NRSA63J-104X	M.G.RESISTOR	100k	1/16W
R502	NRSA63J-104X	M.G.RESISTOR	100k	1/16W
R503	NRSA63J-104X	M.G.RESISTOR	100k	1/16W
R504	NRSA63J-104X	M.G.RESISTOR	100k	1/16W
R505	NRSA63J-104X	M.G.RESISTOR	100k	1/16W
R506	NRSA63J-104X	M.G.RESISTOR	100k	1/16W
R507	NRSA63J-104X	M.G.RESISTOR	100k	1/16W
R508	NRSA63J-104X	M.G.RESISTOR	100k	1/16W
R509	NRSA63J-104X	M.G.RESISTOR	100k	1/16W
R510	NRSA63J-104X	M.G.RESISTOR	100k	1/16W
R511	NRSA63J-104X	M.G.RESISTOR	100k	1/16W
R512	NRSA63J-104X	M.G.RESISTOR	100k	1/16W
R513	NRSA63J-104X	M.G.RESISTOR	100k	1/16W
R514	NRSA63J-104X	M.G.RESISTOR	100k	1/16W
R515	NRSA63J-102X	M.G.RESISTOR	1k	1/16W
R516	NRSA63J-102X	M.G.RESISTOR	1k	1/16W
R517	NRSA63J-102X	M.G.RESISTOR	1k	1/16W
R518	NRSA63J-102X	M.G.RESISTOR	1k	1/16W
R519	NRSA63J-102X	M.G.RESISTOR	1k	1/16W
R520	NRSA63J-102X	M.G.RESISTOR	1k	1/16W
R521	NRSA63J-102X	M.G.RESISTOR	1k	1/16W
R522	NRSA63J-102X	M.G.RESISTOR	1k	1/16W
R523	NRSA63J-102X	M.G.RESISTOR	1k	1/16W
R524	NRSA63J-102X	M.G.RESISTOR	1k	1/16W
R525	NRSA63J-102X	M.G.RESISTOR	1k	1/16W
R526	NRSA63J-102X	M.G.RESISTOR	1k	1/16W
R527	NRSA63J-102X	M.G.RESISTOR	1k	1/16W
R528	NRSA63J-102X	M.G.RESISTOR	1k	1/16W
R529	NRSA63J-220X	M.G.RESISTOR	22	1/16W
R530	NRSA63J-220X	M.G.RESISTOR	22	1/16W
R531	NRSA63J-220X	M.G.RESISTOR	22	1/16W
R532	NRSA63J-121X	M.G.RESISTOR	120	1/16W
R533	NRSA63J-121X	M.G.RESISTOR	120	1/16W
R534	NRSA63J-121X	M.G.RESISTOR	120	1/16W
R535	NRSA63J-104X	M.G.RESISTOR	100k	1/16W
R536	NRSA63J-104X	M.G.RESISTOR	100k	1/16W
R537	NRSA63J-104X	M.G.RESISTOR	100k	1/16W
R538	NRSA63J-220X	M.G.RESISTOR	22	1/16W
R539	NRSA63J-220X	M.G.RESISTOR	22	1/16W
R540	NRSA63J-220X	M.G.RESISTOR	22	1/16W
R541	NRSA63J-220X	M.G.RESISTOR	22	1/16W
R542	NRSA63J-220X	M.G.RESISTOR	22	1/16W
R543	NRSA63J-220X	M.G.RESISTOR	22	1/16W
R544	NRSA63J-220X	M.G.RESISTOR	22	1/16W
R545	NRSA63J-220X	M.G.RESISTOR	22	1/16W
R546	NRSA63J-220X	M.G.RESISTOR	22	1/16W
R547	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R548	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R550	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R551	NRSA63J-474X	M.G.RESISTOR	470k	1/16W
R552	NRSA63J-223X	M.G.RESISTOR	22k	1/16W
R553	NRSA63J-223X	M.G.RESISTOR	22k	1/16W
R554	NRSA63J-223X	M.G.RESISTOR	22k	1/16W
R555	NRSA63J-223X	M.G.RESISTOR	22k	1/16W
R556	NRSA63J-223X	M.G.RESISTOR	22k	1/16W
R558	NRSA63J-223X	M.G.RESISTOR	22k	1/16W
R559	NRSA63J-223X	M.G.RESISTOR	22k	1/16W
R560	NRSA63J-223X	M.G.RESISTOR	22k	1/16W
R561	NRSA63J-223X	M.G.RESISTOR	22k	1/16W
R562	NRSA63J-223X	M.G.RESISTOR	22k	1/16W
R563	NRSA63J-223X	M.G.RESISTOR	22k	1/16W
R564	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R565	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R566	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R567	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R568	NRSA63J-101X	M.G.RESISTOR	100	1/16W

Symbol No.	Part No.	Part Name	Description	
R569	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R570	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R571	NRSA63J-223X	M.G.RESISTOR	22k	1/16W
R572	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R573	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R574	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R575	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R576	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R577	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R578	NRSA63J-220X	M.G.RESISTOR	22	1/16W
R579	NRSA63J-220X	M.G.RESISTOR	22	1/16W
R601	NRSA63J-471X	M.G.RESISTOR	470	1/16W
R602	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
R603	NRSA63J-104X	M.G.RESISTOR	100k	1/16W
R604	NRSA63J-223X	M.G.RESISTOR	22k	1/16W
R605	NRSA63J-102X	M.G.RESISTOR	1k	1/16W
R606	NRSA63J-104X	M.G.RESISTOR	100k	1/16W
R607	NRSA63J-104X	M.G.RESISTOR	100k	1/16W
R608	NRSA63J-394X	M.G.RESISTOR	390k	1/16W
R609	NRSA63J-223X	M.G.RESISTOR	22k	1/16W
R610	NRSA63J-183X	M.G.RESISTOR	18k	1/16W
R611	NRSA63J-123X	M.G.RESISTOR	12k	1/16W
R612	NRSA63J-302X	M.G.RESISTOR	3k	1/16W
R613	NRSA63J-152X	M.G.RESISTOR	1.5k	1/16W
R614	NRSA63J-473X	M.G.RESISTOR	47k	1/16W
R615	NRSA63J-471X	M.G.RESISTOR	470	1/16W
R666	NRSA63J-104X	M.G.RESISTOR	100k	1/16W
R667	NRSA63J-104X	M.G.RESISTOR	100k	1/16W
R668	NRSA63J-104X	M.G.RESISTOR	100k	1/16W
R669	NRSA63J-104X	M.G.RESISTOR	100k	1/16W
R701	NRSA63J-330X	M.G.RESISTOR	33	1/16W
R702	NRSA63J-330X	M.G.RESISTOR	33	1/16W
R703	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R704	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R705	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
VR101	NVP1313-203X	TRIM.RESISTOR	20k	RCA L LEVEL
VR102	NVP1313-203X	TRIM.RESISTOR	20k	RCA R LEVEL
VR103	NVP1313-203X	TRIM.RESISTOR	20k	XLR R LEVEL
VR104	NVP1313-203X	TRIM.RESISTOR	20k	XLR L LEVEL
C1	NDC31HJ-221X	CER.CAPACITOR	220p	50V
C2	NDC31HJ-221X	CER.CAPACITOR	220p	50V
C3	NDC31HJ-221X	CER.CAPACITOR	220p	50V
C4	NDC31HJ-221X	CER.CAPACITOR	220p	50V
C5	NDC31HJ-221X	CER.CAPACITOR	220p	50V
C6	NDC31HJ-221X	CER.CAPACITOR	220p	50V
C7	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C8	NDC31HJ-221X	CER.CAPACITOR	220p	50V
C9	NDC31HJ-221X	CER.CAPACITOR	220p	50V
C10	NDC31HJ-221X	CER.CAPACITOR	220p	50V
C11	NDC31HJ-221X	CER.CAPACITOR	220p	50V
C12	NDC31HJ-221X	CER.CAPACITOR	220p	50V
C13	NCS31HJ-560X	CER.CAPACITOR	56p	50V
C14	NCS31HJ-100X	CER.CAPACITOR	10p	50V
C15	NCS31HJ-560X	CER.CAPACITOR	56p	50V
C16	NCS31HJ-560X	CER.CAPACITOR	56p	50V
C17	NCS31HJ-560X	CER.CAPACITOR	56p	50V
C18	NCS31HJ-560X	CER.CAPACITOR	56p	50V
C19	NCS31HJ-560X	CER.CAPACITOR	56p	50V
C20	NDC31HJ-221X	CER.CAPACITOR	220p	50V
C21	NDC31HJ-221X	CER.CAPACITOR	220p	50V
C22	NDC31HJ-221X	CER.CAPACITOR	220p	50V
C23	NDC31HJ-121X	CER.CAPACITOR	120p	50V
C24	NDC31HJ-471X	CER.CAPACITOR	470p	50V
C25	NDC31HJ-471X	CER.CAPACITOR	470p	50V
C101	NEH91CM-106X	E.CAPACITOR	10	16V
C102	NCS31HJ-101X	CER.CAPACITOR	100p	50V
C103	NEH91CM-106X	E.CAPACITOR	10	16V
C104	NEH91CM-106X	E.CAPACITOR	10	16V
C105	NEH91CM-106X	E.CAPACITOR	10	16V
C106	NCS31HJ-101X	CER.CAPACITOR	100p	50V

[SYS/AUDIO]

Symbol No.	Part No.	Part Name	Description	
C107	NEH91CM-106X	E.CAPACITOR	10	16V
C108	NEH91CM-106X	E.CAPACITOR	10	16V
C109	NEH91CM-476X	E.CAPACITOR	47	16V
C110	NEH91CM-106X	E.CAPACITOR	10	16V
C111	NEH91CM-106X	E.CAPACITOR	10	16V
C112	NCS31HJ-101X	CER.CAPACITOR	100p	50V
C113	NEH91CM-106X	E.CAPACITOR	10	16V
C114	NEH91CM-226X	E.CAPACITOR	22	16V
C115	NEH91CM-106X	E.CAPACITOR	10	16V
C116	NEH91CM-476X	E.CAPACITOR	47	16V
C117	NCS31HJ-9R0X	CER.CAPACITOR	9p	50V
C118	NEH91CM-476X	E.CAPACITOR	47	16V
C119	NEH91CM-106X	E.CAPACITOR	10	16V
C120	NEH91CM-476X	E.CAPACITOR	47	16V
C121	NEH91CM-106X	E.CAPACITOR	10	16V
C122	NEH91CM-106X	E.CAPACITOR	10	16V
C123	NEH91CM-106X	E.CAPACITOR	10	16V
C124	NEH91CM-106X	E.CAPACITOR	10	16V
C125	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C126	NCB31EK-103X	CER.CAPACITOR	0.01	25V
C127	NEH91CM-106X	E.CAPACITOR	10	16V
C128	NEH91CM-106X	E.CAPACITOR	10	16V
C129	NEH91CM-106X	E.CAPACITOR	10	16V
C130	NEH91CM-106X	E.CAPACITOR	10	16V
C131	NEH91HM-105X	E.CAPACITOR	1	50V
C132	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C133	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C134	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C135	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C136	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C137	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C138	NEH91CM-106X	E.CAPACITOR	10	16V
C139	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C140	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C141	NEH91CM-106X	E.CAPACITOR	10	16V
C142	NEH91CM-106X	E.CAPACITOR	10	16V
C143	NEH91CM-106X	E.CAPACITOR	10	16V
C144	NEH91CM-106X	E.CAPACITOR	10	16V
C145	NCS31HJ-100X	CER.CAPACITOR	10p	50V
C146	NEH91CM-226X	E.CAPACITOR	22	16V
C148	NEH91CM-106X	E.CAPACITOR	10	16V
C149	NCS31HJ-100X	CER.CAPACITOR	10p	50V
C150	NEH91CM-226X	E.CAPACITOR	22	16V
C152	NEH91CM-106X	E.CAPACITOR	10	16V
C153	NCS31HJ-100X	CER.CAPACITOR	10p	50V
C154	NEH91CM-106X	E.CAPACITOR	10	16V
C156	NCS31HJ-100X	CER.CAPACITOR	10p	50V
C157	NEH91CM-106X	E.CAPACITOR	10	16V
C158	NEH91CM-106X	E.CAPACITOR	10	16V
C159	NEH91CM-106X	E.CAPACITOR	10	16V
C160	NCS31HJ-100X	CER.CAPACITOR	10p	50V
C161	NEH91CM-106X	E.CAPACITOR	10	16V
C162	NCS31HJ-100X	CER.CAPACITOR	10p	50V
C163	NEH91CM-106X	E.CAPACITOR	10	16V
C164	NEH91CM-106X	E.CAPACITOR	10	16V
C165	NEH91CM-106X	E.CAPACITOR	10	16V
C166	NEH91CM-106X	E.CAPACITOR	10	16V
C167	NEH91CM-476X	E.CAPACITOR	47	16V
C168	NEH91CM-106X	E.CAPACITOR	10	16V
C169	NEH91CM-476X	E.CAPACITOR	47	16V
C170	NEH91CM-106X	E.CAPACITOR	10	16V
C171	NEH91CM-106X	E.CAPACITOR	10	16V
C172	NEH91CM-106X	E.CAPACITOR	10	16V
C173	NEH91CM-106X	E.CAPACITOR	10	16V
C174	NEH91CM-106X	E.CAPACITOR	10	16V
C175	NEH91CM-106X	E.CAPACITOR	10	16V
C176	NCS31HJ-101X	CER.CAPACITOR	100p	50V
C177	NEH91CM-106X	E.CAPACITOR	10	16V
C178	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C179	NEH91CM-106X	E.CAPACITOR	10	16V
C180	NEHE1EM-107X	E.CAPACITOR	100	25V
C181	NCS31HJ-101X	CER.CAPACITOR	100p	50V
C182	NEH91CM-106X	E.CAPACITOR	10	16V

Symbol No.	Part No.	Part Name	Description	
C183	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C184	NEHE1EM-107X	E.CAPACITOR	100	25V
C185	NEH91CM-106X	E.CAPACITOR	10	16V
C186	NEH91CM-106X	E.CAPACITOR	10	16V
C188	NEH91CM-106X	E.CAPACITOR	10	16V
C189	NEH91CM-106X	E.CAPACITOR	10	16V
C190	NEH91CM-106X	E.CAPACITOR	10	16V
C191	NCS31HJ-101X	CER.CAPACITOR	100p	50V
C192	NEH91CM-106X	E.CAPACITOR	10	16V
C193	NEH91CM-106X	E.CAPACITOR	10	16V
C194	NCS31HJ-470X	CER.CAPACITOR	47p	50V
C195	NEH91CM-106X	E.CAPACITOR	10	16V
C198	NEH91EM-475X	E.CAPACITOR	4.7	25V
C199	NEH91EM-475X	E.CAPACITOR	4.7	25V
C200	NEH91HM-474X	E.CAPACITOR	0.47	50V
C201	NEH91HM-474X	E.CAPACITOR	0.47	50V
C202	NEH91CM-106X	E.CAPACITOR	10	16V
C205	NEH91EM-475X	E.CAPACITOR	4.7	25V
C206	NEH91EM-475X	E.CAPACITOR	4.7	25V
C207	NEH91HM-474X	E.CAPACITOR	0.47	50V
C208	NEH91HM-474X	E.CAPACITOR	0.47	50V
C209	NEH91CM-106X	E.CAPACITOR	10	16V
C210	NEH91CM-106X	E.CAPACITOR	10	16V
C211	NEH91CM-106X	E.CAPACITOR	10	16V
C212	NEH91CM-106X	E.CAPACITOR	10	16V
C213	NEH91CM-106X	E.CAPACITOR	10	16V
C214	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C215	NEH91CM-476X	E.CAPACITOR	47	16V
C216	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C217	NEH91CM-476X	E.CAPACITOR	47	16V
C218	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C219	NEH91CM-476X	E.CAPACITOR	47	16V
C220	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C221	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C222	NCB11AK-106X	CER.CAPACITOR	10	10V
C224	NCB31CK-473X	CER.CAPACITOR	0.047	16V
C225	NCB31CK-473X	CER.CAPACITOR	0.047	16V
C226	NCB31CK-473X	CER.CAPACITOR	0.047	16V
C227	NCB31CK-473X	CER.CAPACITOR	0.047	16V
C228	NCS31HJ-100X	CER.CAPACITOR	10p	50V
C229	NEH91CM-106X	E.CAPACITOR	10	16V
C230	NEH91CM-106X	E.CAPACITOR	10	16V
C231	NCS31HJ-100X	CER.CAPACITOR	10p	50V
C235	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C236	NCB31EK-103X	CER.CAPACITOR	0.01	25V
C237	NCB31EK-103X	CER.CAPACITOR	0.01	25V
C238	NEH91CM-226X	E.CAPACITOR	22	16V
C239	NEH91EM-336X	E.CAPACITOR	33	25V
C240	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C241	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C242	NEH91CM-106X	E.CAPACITOR	10	16V
C243	NEH91CM-106X	E.CAPACITOR	10	16V
C244	NEH91HM-105X	E.CAPACITOR	1	50V
C245	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C246	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C247	NCS31HJ-220X	CER.CAPACITOR	22p	50V
C248	NCB31EK-103X	CER.CAPACITOR	0.01	25V
C249	NCB31EK-103X	CER.CAPACITOR	0.01	25V
C250	NCB31EK-103X	CER.CAPACITOR	0.01	25V
C251	NDC31HJ-221X	CER.CAPACITOR	220p	50V
C252	NDC31HJ-121X	CER.CAPACITOR	120p	50V
C301	NCB31CK-473X	CER.CAPACITOR	0.047	16V
C302	NCB31CK-473X	CER.CAPACITOR	0.047	16V
C303	NCB31CK-473X	CER.CAPACITOR	0.047	16V
C304	NCB31CK-473X	CER.CAPACITOR	0.047	16V
C305	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C306	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C307	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C308	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C309	NCB31CK-473X	CER.CAPACITOR	0.047	16V
C310	NCB31CK-473X	CER.CAPACITOR	0.047	16V
C311	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C312	NCB31HK-103X	CER.CAPACITOR	0.01	50V

Symbol No.	Part No.	Part Name	Description	
C313	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C314	NCB31CK-473X	CER.CAPACITOR	0.047	16V
C315	NCS31HJ-220X	CER.CAPACITOR	22p	50V
C316	NCB31CK-473X	CER.CAPACITOR	0.047	16V
C317	NCB31CK-473X	CER.CAPACITOR	0.047	16V
C318	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C319	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C320	NCB31CK-473X	CER.CAPACITOR	0.047	16V
C321	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C322	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C325	NCB31CK-473X	CER.CAPACITOR	0.047	16V
C326	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C327	NCB31CK-473X	CER.CAPACITOR	0.047	16V
C328	NCB31CK-473X	CER.CAPACITOR	0.047	16V
C329	NCS31HJ-120X	CER.CAPACITOR	12p	50V
C330	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C331	NCB11AK-106X	CER.CAPACITOR	10	10V
C332	NCB11AK-106X	CER.CAPACITOR	10	10V
C333	NCB11AK-106X	CER.CAPACITOR	10	10V
C334	NCB11EK-105X	CER.CAPACITOR	1	25V
C335	NCB11EK-105X	CER.CAPACITOR	1	25V
C336	NCB11EK-105X	CER.CAPACITOR	1	25V
C337	NCB11EK-105X	CER.CAPACITOR	1	25V
C338	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C339	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C341	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C343	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C344	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C345	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C346	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C347	NCS31HJ-560X	CER.CAPACITOR	56p	50V
C348	NCS31HJ-560X	CER.CAPACITOR	56p	50V
C349	NDC31HJ-471X	CER.CAPACITOR	470p	50V
C501	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C502	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C503	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C504	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C505	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C506	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C507	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C508	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C509	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C510	NCB11AK-106X	CER.CAPACITOR	10	10V
C511	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C512	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C513	NCB11AK-106X	CER.CAPACITOR	10	10V
C514	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C515	NEH91CM-106X	E.CAPACITOR	10	16V
C516	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C517	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C518	NCB11AK-106X	CER.CAPACITOR	10	10V
C519	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C520	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C523	NDC31HJ-220X	CER.CAPACITOR	22p	50V
C524	NCB31CK-473X	CER.CAPACITOR	0.047	16V
C601	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C602	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C603	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C604	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C605	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C606	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C608	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C609	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C610	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C611	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C612	NCB31HK-331X	CER.CAPACITOR	330p	50V
C613	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C614	NEH91CM-106X	E.CAPACITOR	10	16V
C615	NCB31HK-122X	CER.CAPACITOR	1200p	50V
C616	NEH91CM-476X	E.CAPACITOR	47	16V
C617	NCB31CK-104X	CER.CAPACITOR	0.1	16V

Symbol No.	Part No.	Part Name	Description
L101	NQL085J-220X	COIL	22uH
L102	NQL085J-220X	COIL	22uH
L103	NQL085J-220X	COIL	22uH
L104	NQL085J-220X	COIL	22uH
X301	NAX0325-001X	CRYSTAL	32.768KHz
X302	NAX0536-001X	CRYSTAL	13.5MHz
X501	NAX0536-001X	CRYSTAL	13.5MHz
S301	NSW0022-001X	DIP SWITCH	
CN1	QGF0508F1-40X	CONNECTOR	40PIN
CN4	QGB0502L1-40X	CONNECTOR	40PIN
CN5	QGA1201C2-07X	CONNECTOR	7PIN
CN7	QGF0508C1-45W	CONNECTOR	45PIN
CN12	QGF0508C1-20W	CONNECTOR	20PIN
CN13	QGF0508F1-10X	CONNECTOR	10PIN
CN14	QGA1201F2-08X	CONNECTOR	8PIN
CN15	QGA1201F2-14X	CONNECTOR	14PIN
CN16	QGA1201C2-08X	CONNECTOR	8PIN
CN17	QGA1501C2-07W	CONNECTOR	7PIN
CN18	QGA2001F2-06X	CONNECTOR	6PIN
CN19	QGA1201F2-13X	CONNECTOR	13PIN
CN21	QGA1201F2-04X	CONNECTOR	4PIN
CN101	QGA1501C2-06W	CONNECTOR	6PIN
CN103	QGF0508C1-45W	CONNECTOR	45PIN
TP591	NNZ0009-001X	TEST POINT	
TP592	NNZ0009-001X	TEST POINT	
TP593	NNZ0009-001X	TEST POINT	
BT301	QAB0020-001	LI BATTERY	
K1	NQR0200-005X	COIL	
K2	NQR0200-005X	COIL	
K3	NQR0200-005X	COIL	
K4	NQR0200-005X	COIL	
K5	NQR0200-005X	COIL	
K6	NQR0200-004X	FILTER(CHIP)	
K7	NQR0200-004X	FILTER(CHIP)	
K8	NQR0200-004X	FILTER(CHIP)	
K9	NQR0200-004X	FILTER(CHIP)	
K10	NQR0200-004X	FILTER(CHIP)	
K11	NQR0200-005X	COIL	
K12	NQR0200-005X	COIL	
K13	NQR0200-005X	COIL	
K14	NQR0200-005X	COIL	
K15	NQR0200-005X	COIL	
K16	NQR0200-004X	FILTER(CHIP)	
K103	NQR0265-001X	FERAITE BEADS	
K104	NQR0265-001X	FERAITE BEADS	
K105	NQR0265-001X	FERAITE BEADS	
K106	NQR0265-003X	FERRITE BEADS	
K107	NQR0265-003X	FERRITE BEADS	
K108	NQR0265-001X	FERAITE BEADS	
K109	NQR0265-001X	FERAITE BEADS	
K110	NQR0265-001X	FERAITE BEADS	
K111	NQR0265-001X	FERAITE BEADS	
K112	NQR0265-001X	FERAITE BEADS	
K113	NQR0265-003X	FERRITE BEADS	
K114	NQR0265-001X	FERAITE BEADS	
K115	NQR0265-001X	FERAITE BEADS	
K116	NQR0265-001X	FERAITE BEADS	
K117	NQR0265-001X	FERAITE BEADS	
K118	NQR0265-001X	FERAITE BEADS	
K119	NQR0265-001X	FERAITE BEADS	
K120	NQR0265-003X	FERRITE BEADS	
K121	NQR0265-003X	FERRITE BEADS	
K122	NQR0265-003X	FERRITE BEADS	
K301	NQR0265-001X	FERAITE BEADS	

[SYS/AUDIO]

Symbol No.	Part No.	Part Name	Description
K302	NQR0265-001X	FERAITE BEADS	
K303	NQR0265-001X	FERAITE BEADS	
K304	NQR0265-003X	FERRITE BEADS	
K305	NQR0265-003X	FERRITE BEADS	
K306	NQR0265-003X	FERRITE BEADS	
K307	NQR0265-003X	FERRITE BEADS	
K308	NQR0265-001X	FERAITE BEADS	
K309	NQR0265-001X	FERAITE BEADS	
K310	NQR0265-001X	FERAITE BEADS	
K311	NQR0265-001X	FERAITE BEADS	
K312	NQR0265-003X	FERRITE BEADS	
K313	NQR0265-001X	FERAITE BEADS	
K314	NQR0265-001X	FERAITE BEADS	
K501	NQR0265-003X	FERRITE BEADS	
K502	NQR0265-003X	FERRITE BEADS	
K503	NQR0265-001X	FERAITE BEADS	
K504	NQR0265-001X	FERAITE BEADS	
K505	NQR0265-001X	FERAITE BEADS	
K506	NQR0265-003X	FERRITE BEADS	
K507	NQR0265-003X	FERRITE BEADS	
K508	NQR0265-003X	FERRITE BEADS	
K509	NQR0265-003X	FERRITE BEADS	
K510	NQR0265-001X	FERAITE BEADS	
K511	NQR0265-003X	FERRITE BEADS	
K512	NQR0265-001X	FERAITE BEADS	
K513	NQR0265-001X	FERAITE BEADS	

6.3 FRONT BOARD ASSEMBLY PARTS LIST 0 3

LK2130A0A1 0 3 □□□□□□

Symbol No.	Part No.	Part Name	Description
IC1	SN74LV165ADGV-X	I.C.(M)	TEXAS
IC2	SN74LV165ADGV-X	I.C.(M)	TEXAS
IC3	NJU7222U30-X	I.C.(M)	JRC
Q1	DTA124EUA-X	TRANSISTOR	ROHM
Q2	DTA124EUA-X	TRANSISTOR	ROHM
LD1	SPR-325MVW-T	L.E.D.	ROHM, OPERATE
LD2	SLR-342MG3F	L.E.D.	ROHM, EJECT
LD3	SLR-342MG3F	L.E.D.	ROHM, STOP
LD4	SLR-342MG3F	L.E.D.	ROHM, PLAY
LD5	SLR-342MG3F	L.E.D.	ROHM, PAUSE
LD6	SLR-342MG3F	L.E.D.	ROHM, FF
LD7	SLR-342MG3F	L.E.D.	ROHM, REW
LD8	SLR-342VR3F	L.E.D.	ROHM, REC
LD9	SLR-342VR3F	L.E.D.	ROHM, A. DUB
LD10	SLR-342MG3F	L.E.D.	ROHM, CASSETTE
R1	NRSA63J-102X	M.G.RESISTOR	1k 1/16W
R2	NRSA63J-102X	M.G.RESISTOR	1k 1/16W
R3	NRSA63J-102X	M.G.RESISTOR	1k 1/16W
R4	NRSA63J-102X	M.G.RESISTOR	1k 1/16W
R5	NRSA63J-102X	M.G.RESISTOR	1k 1/16W
R6	NRSA63J-102X	M.G.RESISTOR	1k 1/16W
R7	NRSA63J-102X	M.G.RESISTOR	1k 1/16W
R8	NRSA63J-102X	M.G.RESISTOR	1k 1/16W
R9	NRSA63J-102X	M.G.RESISTOR	1k 1/16W
R10	NRSA63J-102X	M.G.RESISTOR	1k 1/16W
R11	NRSA63J-102X	M.G.RESISTOR	1k 1/16W
R12	NRSA63J-102X	M.G.RESISTOR	1k 1/16W
R13	NRSA63J-102X	M.G.RESISTOR	1k 1/16W
R14	NRSA63J-102X	M.G.RESISTOR	1k 1/16W
R15	NRSA63J-102X	M.G.RESISTOR	1k 1/16W
R16	NRSA63J-102X	M.G.RESISTOR	1k 1/16W
R17	NRSA63J-102X	M.G.RESISTOR	1k 1/16W
R18	NRSA63J-102X	M.G.RESISTOR	1k 1/16W
R19	NRSA63J-102X	M.G.RESISTOR	1k 1/16W
R20	NRSA63J-102X	M.G.RESISTOR	1k 1/16W
R21	NRSA63J-102X	M.G.RESISTOR	1k 1/16W
R22	NRSA63J-102X	M.G.RESISTOR	1k 1/16W
R23	NRSA63J-102X	M.G.RESISTOR	1k 1/16W
R24	NRSA63J-102X	M.G.RESISTOR	1k 1/16W
R25	NRSA63J-102X	M.G.RESISTOR	1k 1/16W
R26	NRSA63J-223X	M.G.RESISTOR	22k 1/16W
R27	NRSA63J-223X	M.G.RESISTOR	22k 1/16W
R28	NRSA63J-223X	M.G.RESISTOR	22k 1/16W
R29	NRSA63J-223X	M.G.RESISTOR	22k 1/16W
R30	NRSA63J-223X	M.G.RESISTOR	22k 1/16W
R31	NRSA63J-223X	M.G.RESISTOR	22k 1/16W
R32	NRSA63J-223X	M.G.RESISTOR	22k 1/16W
R33	NRSA63J-223X	M.G.RESISTOR	22k 1/16W
R34	NRSA63J-223X	M.G.RESISTOR	22k 1/16W
R35	NRSA63J-223X	M.G.RESISTOR	22k 1/16W
R36	NRSA63J-223X	M.G.RESISTOR	22k 1/16W
R37	NRSA63J-223X	M.G.RESISTOR	22k 1/16W
R38	NRSA63J-223X	M.G.RESISTOR	22k 1/16W
R39	NRSA63J-223X	M.G.RESISTOR	22k 1/16W
R40	NRSA63J-271X	M.G.RESISTOR	270 1/16W
R41	NRSA63J-271X	M.G.RESISTOR	270 1/16W
R42	NRSA63J-271X	M.G.RESISTOR	270 1/16W
R43	NRSA63J-271X	M.G.RESISTOR	270 1/16W
R44	NRSA63J-271X	M.G.RESISTOR	270 1/16W
R45	NRSA63J-271X	M.G.RESISTOR	270 1/16W
R46	NRSA63J-271X	M.G.RESISTOR	270 1/16W
R47	NRSA63J-271X	M.G.RESISTOR	270 1/16W
R48	NRSA63J-271X	M.G.RESISTOR	270 1/16W
R49	NRSA63J-271X	M.G.RESISTOR	270 1/16W
R51	NRSA63J-271X	M.G.RESISTOR	270 1/16W
R52	NRSA63J-181X	M.G.RESISTOR	180 1/16W
VR1	QVQ0312-B23	VAL.RESISTOR	2k REC VR CH1/3

6.4 MBLK BOARD ASSEMBLY PARTS LIST [0][4]

LK2131A0A2 [0][4]□□□□□□□

Symbol No.	Part No.	Part Name	Description
VR2	QVQ0312-B23	VAL.RESISTOR	2k REC VR CH2/4
VR3	QVQ0312-B23	VAL.RESISTOR	2k H.PHONE VR
C1	NCB31CK-104X	CER.CAPACITOR	0.1 16V
C2	NCB31CK-104X	CER.CAPACITOR	0.1 16V
C3	NBE21AM-106X	TAN.CAPACITOR	10 10V
C4	NCB31CK-104X	CER.CAPACITOR	0.1 16V
C5	NBE21AM-106X	TAN.CAPACITOR	10 10V
C6	NCB31CK-104X	CER.CAPACITOR	0.1 16V
C7	NBE21AM-106X	TAN.CAPACITOR	10 10V
C8	NCB31CK-104X	CER.CAPACITOR	0.1 16V
C9	NCB31HK-103X	CER.CAPACITOR	0.01 50V
C10	NBE21AM-106X	TAN.CAPACITOR	10 10V
C11	NCB31HK-103X	CER.CAPACITOR	0.01 50V
C12	NDC31HJ-220X	CER.CAPACITOR	22p 50V
C13	NDC31HJ-220X	CER.CAPACITOR	22p 50V
S1	QSW0334-001	SLIDE SWITCH	REMOTE
S2	QSW0340-001	SLIDE SWITCH	INPUT SELECT
S3	QSW0340-001	SLIDE SWITCH	AUDIO OUTPUT
S4	QSW0340-001	SLIDE SWITCH	COUNTER
S5	QSW0340-001	SLIDE SWITCH	AUDIO MONITOR
S6	NSW0202-001X	TACT SWITCH	REC
S7	NSW0202-001X	TACT SWITCH	PAUSE
S8	NSW0202-001X	TACT SWITCH	FF
S9	NSW0202-001X	TACT SWITCH	PLAY
S10	NSW0202-001X	TACT SWITCH	REW
S11	NSW0202-001X	TACT SWITCH	STOP
S12	NSW0202-001X	TACT SWITCH	A.DUB
S13	NSW0202-001X	TACT SWITCH	EJECT
S14	NSW0202-001X	TACT SWITCH	OPERATE
S15	NSW0202-001X	TACT SWITCH	MENU
S16	NSW0202-001X	TACT SWITCH	DISP
S17	NSW0202-001X	TACT SWITCH	INDEX+
S18	NSW0202-001X	TACT SWITCH	INDEX-
S19	NSW0202-001X	TACT SWITCH	BLANK
S20	NSW0202-001X	TACT SWITCH	RESET
S21	NSW0202-001X	TACT SWITCH	SET
S22	NSW0202-001X	TACT SWITCH	HOLD
S23	NSW0202-001X	TACT SWITCH	CUE UP
CN1	QGF0508F1-40X	CONNECTOR	40PIN
TP1	NNZ0009-001X	TEST POINT	TP1 TO TP5
K1	NQR0200-005X	FERAITE BEADS	
K2	NQR0200-005X	FERAITE BEADS	
K3	NQR0200-005X	FERAITE BEADS	
K4	NQR0200-005X	FERAITE BEADS	
K5	NQR0200-005X	FERAITE BEADS	
K6	NQR0200-005X	FERAITE BEADS	
K7	NQR0200-005X	FERAITE BEADS	
TB1	NNZ0006-001X	EARTH TERMINAL	
TB2	NNZ0006-001X	EARTH TERMINAL	

Symbol No.	Part No.	Part Name	Description
Q1	2SC4626/BC/-X	TRANSISTOR	MATSUSHITA
Q2	2SC4626/BC/-X	TRANSISTOR	MATSUSHITA
Q3	2SC4626/BC/-X	TRANSISTOR	MATSUSHITA
Q4	2SD874/QR/-X	TRANSISTOR	MATSUSHITA
Q5	2SD874/QR/-X	TRANSISTOR	MATSUSHITA
Q6	DTA144EUA-X	TRANSISTOR	ROHM
R1	NRSA63J-103X	M.G.RESISTOR	10k 1/16W
R2	NRSA63J-563X	M.G.RESISTOR	56k 1/16W
R3	NRSA63J-223X	M.G.RESISTOR	22k 1/16W
R4	NRSA63J-473X	M.G.RESISTOR	47k 1/16W
R5	NRSA63J-473X	M.G.RESISTOR	47k 1/16W
R6	NRSA63J-223X	M.G.RESISTOR	22k 1/16W
R7	NRSA63J-563X	M.G.RESISTOR	56k 1/16W
R8	NRSA63J-102X	M.G.RESISTOR	1k 1/16W
R9	NRSA63J-102X	M.G.RESISTOR	1k 1/16W
R10	NRSA63J-102X	M.G.RESISTOR	1k 1/16W
R11	NRSA63J-471X	M.G.RESISTOR	470 1/16W
C1	NCB31HK-103X	CER.CAPACITOR	0.01 50V
C2	NCB31CK-104X	CER.CAPACITOR	0.1 16V
C3	NCB11CK-105X	CER.CAPACITOR	1 16V
C4	NDC31HJ-151X	CER.CAPACITOR	150p 50V
C5	NCB31HK-103X	CER.CAPACITOR	0.01 50V
C6	NCB31HK-562X	CER.CAPACITOR	5600p 50V
C7	NFV41HJ-273X	FILM CAPACITOR	0.027 50V
C8	NCZ1016-150X	CER.CAPACITOR	15p
C9	NCZ1016-150X	CER.CAPACITOR	15p
C10	NCZ1016-150X	CER.CAPACITOR	15p
C11	NBE41CM-226X	TAN.CAPACITOR	22 16V
L1	NQLZ010-220X	COIL	22uH
L2	NQLZ010-220X	COIL	22uH
CN6	QGF0508F1-33X	CONNECTOR	33PIN
CN34	QGF0517F1-24X	CONNECTOR	24PIN
T1	NQS0037-001X	SW TRANSF	

6.5 MIC BOARD ASSEMBLY PARTS LIST [0][5]

LK2130A0B2 [0][5]□□□□□□

Symbol No.	Part No.	Part Name	Description	
D1	MA3091/M/-X	ZENER DIODE	MATSUSHITA	
D2	MA3091/M/-X	ZENER DIODE	MATSUSHITA	
D3	MA3091/M/-X	ZENER DIODE	MATSUSHITA	
D4	MA3091/M/-X	ZENER DIODE	MATSUSHITA	
D5	MA3091/M/-X	ZENER DIODE	MATSUSHITA	
D6	MA3091/M/-X	ZENER DIODE	MATSUSHITA	
D7	MA3091/M/-X	ZENER DIODE	MATSUSHITA	
R1	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R2	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
C1	NDC31HJ-221X	CER.CAPACITOR	220p	50V
C2	NDC31HJ-221X	CER.CAPACITOR	220p	50V
C3	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C4	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C5	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C6	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C8	NDC31HJ-101X	CER.CAPACITOR	100p	50V
L1	NQL085J-100X	COIL	10uH	
L2	NQL085J-100X	COIL	10uH	
L3	NQL085J-100X	COIL	10uH	
LC1	NQR0155-004X	LC FILTER		
LC2	NQR0155-004X	LC FILTER		
LC3	NQR0155-004X	LC FILTER		
CN14	QGA1201F2-08X	CONNECTOR	8PIN	
TP1	NNZ0009-001X	TEST POINT		
TP2	NNZ0009-001X	TEST POINT		
JK1	QNS0045-001	3.5 JACK	MIC	
JK2	QNS0045-001	3.5 JACK	H.PHONE	

6.6 DCDC BOARD ASSEMBLY PARTS LIST [0][6]

LA2131A0A1 [0][6]□□□□□□□

Symbol No.	Part No.	Part Name	Description
IC1	BA9743AFV-X	I.C.(M)	ROHM
IC2	BA9743AFV-X	I.C.(M)	ROHM
IC3	BA9743AFV-X	I.C.(M)	ROHM
IC4	NJM78M05DL1A-X	I.C.(M)	JRC
IC5	NJM78M12DL1A-X	I.C.(M)	JRC
Q2	DTC114EUA-X	TRANSISTOR	ROHM
Q3	HAT1020R-X	TRANSISTOR	HITACHI
Q4	DTC114EUA-X	TRANSISTOR	ROHM
Q6	HAT1020R-X	TRANSISTOR	HITACHI
Q7	2SC4097/QR/-X	TRANSISTOR	ROHM
Q8	2SA1577/QR/-X	TRANSISTOR	ROHM
Q9	2SJ484WY-X	FET	HITACHI
Q10	2SC4097/QR/-X	TRANSISTOR	ROHM
Q11	2SA1577/QR/-X	TRANSISTOR	ROHM
Q12	HAT1020R-X	TRANSISTOR	HITACHI
Q13	2SC4097/QR/-X	TRANSISTOR	ROHM
Q14	2SA1577/QR/-X	TRANSISTOR	ROHM
Q15	2SJ484WY-X	FET	HITACHI
Q19	2SC4097/QR/-X	TRANSISTOR	ROHM
Q20	2SA1577/QR/-X	TRANSISTOR	ROHM
Q21	HAT1020R-X	TRANSISTOR	HITACHI
Q22	2SA1577/QR/-X	TRANSISTOR	ROHM
Q23	2SC4097/QR/-X	TRANSISTOR	ROHM
Q24	HAT2020R-X	TRANSISTOR	HITACHI
Q25	2SC4097/QR/-X	TRANSISTOR	ROHM
Q26	2SA1577/QR/-X	TRANSISTOR	ROHM
Q27	HAT1020R-X	TRANSISTOR	HITACHI
D1	SB140L-6395	DIODE	SANYO
D5	SFPB-72-W	SB DIODE	SANKEN
D6	SFPB-72-W	SB DIODE	SANKEN
D7	SFPB-72-W	SB DIODE	SANKEN
D9	SFPB-72-W	SB DIODE	SANKEN
D10	SFPB-72-W	SB DIODE	SANKEN
D11	SFPB-72-W	SB DIODE	SANKEN
R1	NRSA63J-153X	M.G.RESISTOR	15k	1/16W
R2	NRSA63J-472X	M.G.RESISTOR	4.7k	1/16W
R3	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
R4	NRSA63J-472X	M.G.RESISTOR	4.7k	1/16W
R5	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
R6	NRSA63J-472X	M.G.RESISTOR	4.7k	1/16W
R7	NRSA63D-153X	M.G.RESISTOR	15k	1/16W
R8	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
R9	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R11	NRSA63D-273X	M.G.RESISTOR	27k	1/16W
R12	NRSA63D-472X	M.G.RESISTOR	4.7k	1/16W
R13	NRSA63D-472X	M.G.RESISTOR	4.7k	1/16W
R14	NRSA63J-123X	M.G.RESISTOR	12k	1/16W
R15	NRSA63D-472X	M.G.RESISTOR	4.7k	1/16W
R16	NRSA63D-472X	M.G.RESISTOR	4.7k	1/16W
R18	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R19	NRSA63D-273X	M.G.RESISTOR	27k	1/16W
R20	NRSA63D-332X	M.G.RESISTOR	3.3k	1/16W
R25	NRSA63J-471X	M.G.RESISTOR	470	1/16W
R26	NRSA63J-332X	M.G.RESISTOR	3.3k	1/16W
R27	NRSA63J-100X	M.G.RESISTOR	10	1/16W
R28	NRSA63D-392X	M.G.RESISTOR	3.9k	1/16W
R29	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R30	NRSA63D-132X	M.G.RESISTOR	1.3k	1/16W
R32	NRSA63J-471X	M.G.RESISTOR	470	1/16W
R33	NRSA63J-332X	M.G.RESISTOR	3.3k	1/16W
R34	NRSA63J-100X	M.G.RESISTOR	10	1/16W
R35	NRSA63D-222X	M.G.RESISTOR	2.2k	1/16W
R36	NRSA63D-332X	M.G.RESISTOR	3.3k	1/16W
R37	NRSA63D-362X	M.G.RESISTOR	3.6k	1/16W
R39	NRSA63J-471X	M.G.RESISTOR	470	1/16W
R40	NRSA63J-332X	M.G.RESISTOR	3.3k	1/16W
R41	NRSA63J-100X	M.G.RESISTOR	10	1/16W
R42	NRSA63D-333X	M.G.RESISTOR	33k	1/16W
R43	NRSA63D-202X	M.G.RESISTOR	2k	1/16W
R46	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R47	NRSA63D-153X	M.G.RESISTOR	15k	1/16W
R48	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
R50	NRSA63D-273X	M.G.RESISTOR	27k	1/16W
R51	NRSA63D-472X	M.G.RESISTOR	4.7k	1/16W
R52	NRSA63D-472X	M.G.RESISTOR	4.7k	1/16W
R53	NRSA63D-472X	M.G.RESISTOR	4.7k	1/16W
R54	NRSA63D-472X	M.G.RESISTOR	4.7k	1/16W
R56	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R57	NRSA63J-123X	M.G.RESISTOR	12k	1/16W
R58	NRSA63D-273X	M.G.RESISTOR	27k	1/16W
R66	NRSA63J-471X	M.G.RESISTOR	470	1/16W
R67	NRSA63J-332X	M.G.RESISTOR	3.3k	1/16W
R68	NRSA63J-100X	M.G.RESISTOR	10	1/16W
R69	NRSA63D-472X	M.G.RESISTOR	4.7k	1/16W
R70	NRSA63D-102X	M.G.RESISTOR	1k	1/16W
R71	NRSA63D-152X	M.G.RESISTOR	1.5k	1/16W
R73	NRSA63J-472X	M.G.RESISTOR	4.7k	1/16W
R74	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
R76	NRSA63D-153X	M.G.RESISTOR	15k	1/16W
R77	NRSA63D-273X	M.G.RESISTOR	27k	1/16W

Symbol No.	Part No.	Part Name	Description	
R78	NRSA63D-472X	M.G.RESISTOR	4.7k	1/16W
R79	NRSA63D-472X	M.G.RESISTOR	4.7k	1/16W
R80	NRSA63D-472X	M.G.RESISTOR	4.7k	1/16W
R81	NRSA63D-472X	M.G.RESISTOR	4.7k	1/16W
R82	NRSA63D-472X	M.G.RESISTOR	4.7k	1/16W
R84	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R85	NRSA63D-153X	M.G.RESISTOR	15k	1/16W
R86	NRSA63D-273X	M.G.RESISTOR	27k	1/16W
R87	NRSA63J-331X	M.G.RESISTOR	330	1/16W
R88	NRSA63J-102X	M.G.RESISTOR	1k	1/16W
R89	NRSA63J-391X	M.G.RESISTOR	390	1/16W
R90	NRSA63D-683X	M.G.RESISTOR	68k	1/16W
R91	NRSA63D-682X	M.G.RESISTOR	6.8k	1/16W
R92	NRSA63D-682X	M.G.RESISTOR	6.8k	1/16W
R94	NRSA63J-471X	M.G.RESISTOR	470	1/16W
R95	NRSA63J-332X	M.G.RESISTOR	3.3k	1/16W
R96	NRSA63J-100X	M.G.RESISTOR	10	1/16W
R97	NRSA63D-333X	M.G.RESISTOR	33k	1/16W
R98	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R100	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R101	NRSA63J-223X	M.G.RESISTOR	22k	1/16W
R103	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R104	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R105	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R106	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R107	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R108	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R115	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
C1	NEH91EM-336X	E.CAPACITOR	33	25V
C5	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C9	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C11	NCB11CK-105X	CER.CAPACITOR	1	16V
C12	NCS31HJ-221X	CER.CAPACITOR	220p	50V
C13	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C14	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C15	NCB11CK-105X	CER.CAPACITOR	1	16V
C16	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C17	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C18	NCB11CK-105X	CER.CAPACITOR	1	16V
C22	NCB11CK-105X	CER.CAPACITOR	1	16V
C23	NBE51CM-336X	TAN.CAPACITOR	33	16V
C24	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C25	NBE51CM-336X	TAN.CAPACITOR	33	16V
C26	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C27	NBE51CM-336X	TAN.CAPACITOR	33	16V
C28	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C29	NCB11CK-105X	CER.CAPACITOR	1	16V
C30	NBE51AM-336X	TAN.CAPACITOR	33	10V
C31	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C32	NBE51AM-336X	TAN.CAPACITOR	33	10V
C33	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C34	NBE51AM-336X	TAN.CAPACITOR	33	10V
C35	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C36	NCB11CK-105X	CER.CAPACITOR	1	16V
C37	NEHE1EM-107X	E.CAPACITOR	100	25V
C38	NCB41CM-106X	CER.CAPACITOR	10	16V
C40	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C42	NCB41CM-106X	CER.CAPACITOR	10	16V
C43	NCB41CM-106X	CER.CAPACITOR	10	16V
C44	NCB41CM-106X	CER.CAPACITOR	10	16V
C45	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C46	NCB31HK-472X	CER.CAPACITOR	4700p	50V
C47	NCS31HJ-221X	CER.CAPACITOR	220p	50V
C48	NCB11CK-105X	CER.CAPACITOR	1	16V
C49	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C50	NCF31CZ-224X	CER.CAPACITOR	0.22	16V
C51	NCB11CK-105X	CER.CAPACITOR	1	16V
C52	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C53	NCB11CK-105X	CER.CAPACITOR	1	16V
C64	NCB11CK-105X	CER.CAPACITOR	1	16V
C65	NBE71DM-336X	TAN.CAPACITOR	33	20V

Symbol No.	Part No.	Part Name	Description	
C68	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C69	NBE71DM-336X	TAN.CAPACITOR	33	20V
C73	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C74	NCB31CK-223X	CER.CAPACITOR	0.022	16V
C75	NCS31HJ-221X	CER.CAPACITOR	220p	50V
C76	NCB11CK-105X	CER.CAPACITOR	1	16V
C77	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C78	NCF31CZ-224X	CER.CAPACITOR	0.22	16V
C79	NCB11CK-105X	CER.CAPACITOR	1	16V
C80	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C81	NCB11CK-105X	CER.CAPACITOR	1	16V
C82	NCB11CK-105X	CER.CAPACITOR	1	16V
C83	NEX51DM-476X	E.CAPACITOR	47	20V
C86	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C88	NCB41CM-106X	CER.CAPACITOR	10	16V
C89	NCB41CM-106X	CER.CAPACITOR	10	16V
C90	NCB41CM-106X	CER.CAPACITOR	10	16V
C91	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C92	NCB11CK-105X	CER.CAPACITOR	1	16V
C93	NEHE1EM-107X	E.CAPACITOR	100	25V
C94	NCB11AK-106X	CER.CAPACITOR	10	10V
C96	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C102	NCF31CZ-334X	CER.CAPACITOR	0.33	16V
C104	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C105	NCF31CZ-334X	CER.CAPACITOR	0.33	16V
C107	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C108	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C111	NCS31HJ-221X	CER.CAPACITOR	220p	50V
L1	NQL25CM-330X	COIL	33uH	
L2	SSV2810-330V	COIL	33uH	
L3	SSV2810-330V	COIL	33uH	
L4	NQL25CM-330X	COIL	33uH	
L5	SSV2810-330V	COIL	33uH	
L6	SSV2810-330V	COIL	33uH	
L7	NQL25CM-470X	COIL	47uH	
L8	SSV2810-330V	COIL	33uH	
L11	NQL25CM-330X	COIL	33uH	
L12	SSV2810-330V	COIL	33uH	
L13	NQL44CM-6R8X	COIL	6.8uH	
L14	SSV2810-330V	COIL	33uH	
L15	NQL25CM-470X	COIL	47uH	
⚠F1	NMFZ011-4R0X-S	FUSE	SOC 4A/63V	
CN11	QGA1201F2-10X	CONNECTOR	10PIN	
CN15	QGA1201F2-14X	CONNECTOR	14PIN	
CN31	QGA3901F2-02	CONNECTOR	2PIN	
CN32	QGA1201F2-02X	CONNECTOR	2PIN	
CN33	QGA1201F2-08X	CONNECTOR	8PIN	
CN111	QGA2501F1-02	CONNECTOR	2PIN	
TP1	NNZ0009-001X	TEST POINT	TP1 & TP2	
TP4	NNZ0009-001X	TEST POINT	TP4 TO TP6	
TP8	NNZ0009-001X	TEST POINT	TP8 TO TP12	
TP20	NNZ0009-001X	TEST POINT		
K1	NQR0200-005X	FERAITE BEADS	K1 TO K15	
TB1	NNZ0006-001X	EARTH TERMINAL		
TB2	NNZ0006-001X	EARTH TERMINAL		

6.7 REAR1 BOARD ASSEMBLY PARTS LIST [0][7]

LK2133A0B1 [0][7]□□□□□□□

Symbol No.	Part No.	Part Name	Description
D1	MA3091/M/-X	ZENER DIODE	MATSUSHITA
D2	MA3091/M/-X	ZENER DIODE	MATSUSHITA
D3	MA3091/M/-X	ZENER DIODE	MATSUSHITA
D4	MA3091/M/-X	ZENER DIODE	MATSUSHITA
D5	MA3091/M/-X	ZENER DIODE	MATSUSHITA
D6	MA3091/M/-X	ZENER DIODE	MATSUSHITA
D7	MA3091/M/-X	ZENER DIODE	MATSUSHITA
D8	MA3091/M/-X	ZENER DIODE	MATSUSHITA
D9	MA3091/M/-X	ZENER DIODE	MATSUSHITA
D10	MA3091/M/-X	ZENER DIODE	MATSUSHITA
D11	MA3091/M/-X	ZENER DIODE	MATSUSHITA
D12	MA3091/M/-X	ZENER DIODE	MATSUSHITA
D13	MA3091/M/-X	ZENER DIODE	MATSUSHITA
D14	MA3091/M/-X	ZENER DIODE	MATSUSHITA
D15	MA3091/M/-X	ZENER DIODE	MATSUSHITA
D16	MA3091/M/-X	ZENER DIODE	MATSUSHITA
D17	MA3091/M/-X	ZENER DIODE	MATSUSHITA
D18	MA3091/M/-X	ZENER DIODE	MATSUSHITA
D19	MA3091/M/-X	ZENER DIODE	MATSUSHITA
D20	MA3091/M/-X	ZENER DIODE	MATSUSHITA
D21	MA3091/M/-X	ZENER DIODE	MATSUSHITA
D22	MA3091/M/-X	ZENER DIODE	MATSUSHITA
D23	MA3091/M/-X	ZENER DIODE	MATSUSHITA
D24	MA3091/M/-X	ZENER DIODE	MATSUSHITA
D25	MA3091/M/-X	ZENER DIODE	MATSUSHITA
D26	MA3091/M/-X	ZENER DIODE	MATSUSHITA
D27	MA3091/M/-X	ZENER DIODE	MATSUSHITA
D28	MA3091/M/-X	ZENER DIODE	MATSUSHITA
D29	MA3091/M/-X	ZENER DIODE	MATSUSHITA
D30	MA3091/M/-X	ZENER DIODE	MATSUSHITA
D31	MA3091/M/-X	ZENER DIODE	MATSUSHITA
D32	MA3091/M/-X	ZENER DIODE	MATSUSHITA
D33	MA3091/M/-X	ZENER DIODE	MATSUSHITA
D34	MA3091/M/-X	ZENER DIODE	MATSUSHITA
D35	MA3091/M/-X	ZENER DIODE	MATSUSHITA
D36	MA3091/M/-X	ZENER DIODE	MATSUSHITA
D37	MA3091/M/-X	ZENER DIODE	MATSUSHITA
D38	MA3091/M/-X	ZENER DIODE	MATSUSHITA
D39	MA3091/M/-X	ZENER DIODE	MATSUSHITA
D40	MA3091/M/-X	ZENER DIODE	MATSUSHITA
D41	MA3091/M/-X	ZENER DIODE	MATSUSHITA
D42	MA3091/M/-X	ZENER DIODE	MATSUSHITA
R1	NRSA63J-0R0X	M.G.RESISTOR	0 1/16W
R2	NRSA63J-0R0X	M.G.RESISTOR	0 1/16W
C2	NDC31HJ-221X	CER.CAPACITOR	220p 50V
C3	NDC31HJ-221X	CER.CAPACITOR	220p 50V
C4	NDC31HJ-221X	CER.CAPACITOR	220p 50V
C5	NDC31HJ-221X	CER.CAPACITOR	220p 50V
C6	NDC31HJ-221X	CER.CAPACITOR	220p 50V
C7	NDC31HJ-221X	CER.CAPACITOR	220p 50V
C10	NDC31HJ-221X	CER.CAPACITOR	220p 50V
L1	NQL024J-100X	COIL	10uH
L2	NQL024J-100X	COIL	10uH
L3	NQL024J-100X	COIL	10uH
L4	NQL024J-100X	COIL	10uH
L5	NQL024J-100X	COIL	10uH
J101	QNZ0226-001	CONNECTOR	Y/C IN
J102	QNZ0226-001	CONNECTOR	Y/C OUT
J103	QNZ0169-001	BNC CONNECTOR	VIDEO
J104	QNZ0169-001	BNC CONNECTOR	COMP Y
J105	QNZ0169-001	BNC CONNECTOR	COMP R-Y
J106	QNZ0169-001	BNC CONNECTOR	COMP B-Y
J107	QNN0236-001	RCA JACK	AUDIO I/O CH2
J108	QNN0232-001	RCA JACK	AUDIO I/O CH1
CN2	QGA1501F1-08	CONNECTOR	8PIN
CN3	QGA1501F1-10	CONNECTOR	10PIN
CN4	QGA1501F1-11	CONNECTOR	11PIN
CN19	QGA1501F1-13	CONNECTOR	13PIN
K2	PGZ01693-009Z	FERRITE BEADS	

6.8 REAR2 BOARD ASSEMBLY PARTS LIST [0][8]

LK2133A0A2 [0][8]□□□□□□□

Symbol No.	Part No.	Part Name	Description
D1	MA3091/M/-X	ZENER DIODE	MATSUSHITA
D2	MA3091/M/-X	ZENER DIODE	MATSUSHITA
D3	MA3091/M/-X	ZENER DIODE	MATSUSHITA
R1	NRSA63J-0R0X	M.G.RESISTOR	0 1/16W
R2	NRSA63J-0R0X	M.G.RESISTOR	0 1/16W
R3	NRSA63J-0R0X	M.G.RESISTOR	0 1/16W
R4	NRSA63J-0R0X	M.G.RESISTOR	0 1/16W
S1	QSW0300-003	SLIDE SWITCH	TIMER SWITCH
J201	QNZ0097-001	JACK	DV CONNECTOR
J202	QNS0037-001	3.5 JACK	SERIAL REMOTE
J203	QNS0037-001	3.5 JACK	SERIAL REMOTE
J204	QNA0033-001	DC JACK	DC 12V
CN5	QGA1501F1-07	CONNECTOR	7PIN
CN31	QGA3901F2-02	CONNECTOR	2PIN
CN101	QGA1501F1-06	CONNECTOR	6PIN
K1	PGZ01693-009Z	FERRITE BEADS	
K2	PGZ01693-009Z	FERRITE BEADS	
K3	PGZ01693-009Z	FERRITE BEADS	
K4	PGZ01693-009Z	FERRITE BEADS	
K5	PGZ01693-009Z	FERRITE BEADS	

6.9 JVC BUS BOARD ASSEMBLY PARTS LIST [0][9]

LK2133A0B3 [0][9]□□□□□□□

Symbol No.	Part No.	Part Name	Description
J301	PGZ01516	CONNECTOR	12PIN, FEMALE
CN16	QGA1501F1-08	CONNECTOR	8PIN

6.10 SLOT MOTHER BOARD ASSEMBLY PARTS LIST [1][0]

LK2130A0A3 [1][0]□□□□□□□

Symbol No.	Part No.	Part Name	Description
CN8	QGF0508C1-24W	CONNECTOR	24PIN
CN12	QGF0508C1-20W	CONNECTOR	20PIN
CN21	QGA1201C2-04X	CONNECTOR	4PIN
CN33	QGA1201C2-08X	CONNECTOR	8PIN
CN34	QGB1209J1-60	CONNECTOR	60PIN
CN101	QGA1201C2-06X	CONNECTOR	6PIN

6.11 DV/CPU BOARD ASSEMBLY PARTS LIST 1 1

LK2125C0B 1 1 □ □ □ □ □ □ □

Symbol No.	Part No.	Part Name	Description
IC1	JCY0132	I.C.(M)	JVC
IC2	TC7SH00FU-X	I.C.(M)	TOSHIBA
IC3	TC7SH00FU-X	I.C.(M)	TOSHIBA
IC101	TLC2940IPW-X	I.C.(M)	TEXAS
IC102	JCY0136-X	I.C.(M)	JVC
IC103	JCY0152	I.C.(M)	JVC
IC104	SN74AHC574PW-X	I.C.(M)	TEXAS
IC105	SN74AHC574PW-X	I.C.(M)	TEXAS
IC106	SN74AHC245DGV-X	I.C.(M)	TEXAS
IC107	TC7W53FU-X	I.C.(M)	TOSHIBA
IC301	M95320-WMN6-X	I.C.(M)	MITSUBISHI
IC302	PLSL1152	I.C.(M)	MN103SF33NY4
IC303	RN5VD26AA-X	I.C.(M)	RICHO
IC402	MM1571JN-X	I.C.(M)	MITSUMI
IC404	TC7W14FU-X	I.C.(M)	TOSHIBA
IC405	M62366GP-X	I.C.(M)	MITSUBISHI
Q102	DTC143EUA-X	TRANSISTOR	ROHM
Q402	DTA114EUA-X	TRANSISTOR	ROHM
Q403	DTA114EUA-X	TRANSISTOR	ROHM
Q404	DTA114EUA-X	TRANSISTOR	ROHM
Q405	DTA114EUA-X	TRANSISTOR	ROHM
Q406	UMC3N-W	TRANSISTOR	ROHM
Q407	UMC3N-W	TRANSISTOR	ROHM
Q408	UMC3N-W	TRANSISTOR	ROHM
Q409	UMC3N-W	TRANSISTOR	ROHM
Q410	DTA114EUA-X	TRANSISTOR	ROHM
Q411	2SA1577/PQ/-X	TRANSISTOR	ROHM
Q412	2SA1577/PQ/-X	TRANSISTOR	ROHM
D101	EC2C01C-X	DIODE ARRAY	SANYO
D102	EC2C01C-X	DIODE ARRAY	SANYO
D103	EC2C01C-X	DIODE ARRAY	SANYO
D401	DAN202U-X	DIODE	ROHM
D402	DAN202U-X	DIODE	ROHM
D403	DAN202U-X	DIODE	ROHM
R3	NRSA63J-471X	M.G.RESISTOR	470 1/16W
R4	NRSA63J-104X	M.G.RESISTOR	100k 1/16W
R5	NRSA63J-102X	M.G.RESISTOR	1k 1/16W
R6	NRSA63J-241X	M.G.RESISTOR	240 1/16W
R7	NRSA63J-241X	M.G.RESISTOR	240 1/16W
R8	NRSA63J-241X	M.G.RESISTOR	240 1/16W
R9	NRSA63J-241X	M.G.RESISTOR	240 1/16W
R10	NRSA63J-223X	M.G.RESISTOR	22k 1/16W
R11	NRSA63J-472X	M.G.RESISTOR	4.7k 1/16W
R12	NRSA63J-471X	M.G.RESISTOR	470 1/16W
R13	NRSA63J-0R0X	M.G.RESISTOR	0 1/16W
R14	NRSA63D-560X	M.G.RESISTOR	56 1/16W
R101	NRSA63J-222X	M.G.RESISTOR	2.2k 1/16W
R104	NRSA63J-103X	M.G.RESISTOR	10k 1/16W
R105	NRSA63J-102X	M.G.RESISTOR	1k 1/16W
R106	NRSA63J-102X	M.G.RESISTOR	1k 1/16W
R107	NRSA63J-0R0X	M.G.RESISTOR	0 1/16W
R108	NRSA63J-221X	M.G.RESISTOR	220 1/16W
R109	NRSA63J-0R0X	M.G.RESISTOR	0 1/16W
R111	NRSA63J-102X	M.G.RESISTOR	1k 1/16W
R112	NRSA63J-151X	M.G.RESISTOR	150 1/16W
R113	NRSA63J-302X	M.G.RESISTOR	3k 1/16W
R114	NRSA63J-151X	M.G.RESISTOR	150 1/16W
R115	NRSA63J-302X	M.G.RESISTOR	3k 1/16W
R116	NRSA63J-220X	M.G.RESISTOR	22 1/16W
R117	NRSA63J-220X	M.G.RESISTOR	22 1/16W
R118	NRSA63J-105X	M.G.RESISTOR	1M 1/16W
R119	NRSA63J-0R0X	M.G.RESISTOR	0 1/16W
R120	NRSA63J-562X	M.G.RESISTOR	5.6k 1/16W
R121	NRSA63J-222X	M.G.RESISTOR	2.2k 1/16W
R122	NRSA63J-103X	M.G.RESISTOR	10k 1/16W
R123	NRSA63J-103X	M.G.RESISTOR	10k 1/16W
R124	NRSA63J-224X	M.G.RESISTOR	220k 1/16W
R126	NRSA63J-222X	M.G.RESISTOR	2.2k 1/16W
R127	NRSA63J-242X	M.G.RESISTOR	2.4k 1/16W

Symbol No.	Part No.	Part Name	Description
R128	NRSA63J-392X	M.G.RESISTOR	3.9k 1/16W
R129	NRSA63J-392X	M.G.RESISTOR	3.9k 1/16W
R130	NRSA63D-560X	M.G.RESISTOR	56 1/16W
R131	NRSA63D-560X	M.G.RESISTOR	56 1/16W
R132	NRSA63D-560X	M.G.RESISTOR	56 1/16W
R133	NRSA63D-560X	M.G.RESISTOR	56 1/16W
R134	NRSA63D-512X	M.G.RESISTOR	5.1k 1/16W
R139	NRSA63J-330X	M.G.RESISTOR	33 1/16W
R141	NRSA63J-0R0X	M.G.RESISTOR	0 1/16W
R142	NRSA63J-103X	M.G.RESISTOR	10k 1/16W
R147	NRSA63J-103X	M.G.RESISTOR	10k 1/16W
R148	NRSA63J-681X	M.G.RESISTOR	680 1/16W
R149	NRSA63J-103X	M.G.RESISTOR	10k 1/16W
R150	NRSA63J-222X	M.G.RESISTOR	2.2k 1/16W
R151	NRSA63J-224X	M.G.RESISTOR	220k 1/16W
R152	NRSA63J-224X	M.G.RESISTOR	220k 1/16W
R153	NRSA63J-105X	M.G.RESISTOR	1M 1/16W
R154	NRSA63J-0R0X	M.G.RESISTOR	0 1/16W
R155	NRSA63J-560X	M.G.RESISTOR	56 1/16W
R156	NRSA63J-560X	M.G.RESISTOR	56 1/16W
R157	NRSA63J-560X	M.G.RESISTOR	56 1/16W
R158	NRSA63J-560X	M.G.RESISTOR	56 1/16W
R159	NRSA63J-560X	M.G.RESISTOR	56 1/16W
R160	NRSA63J-560X	M.G.RESISTOR	56 1/16W
R164	NRSA63J-560X	M.G.RESISTOR	56 1/16W
R165	NRSA63J-560X	M.G.RESISTOR	56 1/16W
R166	NRSA63J-560X	M.G.RESISTOR	56 1/16W
R167	NRSA63J-560X	M.G.RESISTOR	56 1/16W
R168	NRSA63J-560X	M.G.RESISTOR	56 1/16W
R169	NRSA63J-103X	M.G.RESISTOR	10k 1/16W
R170	NRSA63J-103X	M.G.RESISTOR	10k 1/16W
R171	NRSA63J-330X	M.G.RESISTOR	33 1/16W
R172	NRSA63J-330X	M.G.RESISTOR	33 1/16W
R173	NRSA63J-330X	M.G.RESISTOR	33 1/16W
R174	NRSA63J-330X	M.G.RESISTOR	33 1/16W
R176	NRSA63J-105X	M.G.RESISTOR	1M 1/16W
R178	NRSA63J-182X	M.G.RESISTOR	1.8k 1/16W
R179	NRSA63J-561X	M.G.RESISTOR	560 1/16W
R181	NRSA63J-330X	M.G.RESISTOR	33 1/16W
R183	NRSA63J-330X	M.G.RESISTOR	33 1/16W
R189	NRSA63J-0R0X	M.G.RESISTOR	0 1/16W
R301	NRSA63J-103X	M.G.RESISTOR	10k 1/16W
R302	NRSA63J-103X	M.G.RESISTOR	10k 1/16W
R303	NRSA63J-103X	M.G.RESISTOR	10k 1/16W
R304	NRSA63J-103X	M.G.RESISTOR	10k 1/16W
R305	NRSA63J-103X	M.G.RESISTOR	10k 1/16W
R306	NRSA63J-103X	M.G.RESISTOR	10k 1/16W
R307	NRSA63J-103X	M.G.RESISTOR	10k 1/16W
R308	NRSA63J-103X	M.G.RESISTOR	10k 1/16W
R309	NRSA63J-103X	M.G.RESISTOR	10k 1/16W
R310	NRSA63J-103X	M.G.RESISTOR	10k 1/16W
R311	NRSA63J-103X	M.G.RESISTOR	10k 1/16W
R312	NRSA63J-103X	M.G.RESISTOR	10k 1/16W
R313	NRSA63J-103X	M.G.RESISTOR	10k 1/16W
R314	NRSA63J-103X	M.G.RESISTOR	10k 1/16W
R315	NRSA63J-103X	M.G.RESISTOR	10k 1/16W
R316	NRSA63J-103X	M.G.RESISTOR	10k 1/16W
R317	NRSA63J-103X	M.G.RESISTOR	10k 1/16W
R318	NRSA63J-103X	M.G.RESISTOR	10k 1/16W
R319	NRSA63J-103X	M.G.RESISTOR	10k 1/16W
R320	NRSA63J-0R0X	M.G.RESISTOR	0 1/16W
R321	NRSA63J-103X	M.G.RESISTOR	10k 1/16W
R322	NRSA63J-103X	M.G.RESISTOR	10k 1/16W
R323	NRSA63J-103X	M.G.RESISTOR	10k 1/16W
R324	NRSA63J-103X	M.G.RESISTOR	10k 1/16W
R325	NRSA63J-103X	M.G.RESISTOR	10k 1/16W
R326	NRSA63J-103X	M.G.RESISTOR	10k 1/16W
R327	NRSA63J-103X	M.G.RESISTOR	10k 1/16W
R328	NRSA63J-103X	M.G.RESISTOR	10k 1/16W
R329	NRSA63J-474X	M.G.RESISTOR	470k 1/16W
R330	NRSA63J-103X	M.G.RESISTOR	10k 1/16W
R331	NRSA63J-103X	M.G.RESISTOR	10k 1/16W
R332	NRSA63J-103X	M.G.RESISTOR	10k 1/16W

[DV/CPU]

Symbol No.	Part No.	Part Name	Description	
R333	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
R334	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
R335	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R336	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
R337	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
R338	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
R339	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
R340	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
R341	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
R342	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
R343	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
R344	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
R345	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
R346	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
R347	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
R348	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
R349	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
R350	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
R351	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
R352	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
R357	NRSA63J-102X	M.G.RESISTOR	1k	1/16W
R358	NRSA63J-472X	M.G.RESISTOR	4.7k	1/16W
R401	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R402	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R405	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
R406	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R407	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R408	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R409	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R410	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R411	NRSA63J-332X	M.G.RESISTOR	3.3k	1/16W
R412	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R413	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R415	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
R416	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
R417	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
R418	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R419	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R420	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R421	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R422	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R423	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R424	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R425	NRSA63J-332X	M.G.RESISTOR	3.3k	1/16W
R426	NRSA63J-332X	M.G.RESISTOR	3.3k	1/16W
R427	NRSA63J-332X	M.G.RESISTOR	3.3k	1/16W
R428	NRSA63J-332X	M.G.RESISTOR	3.3k	1/16W
R429	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R430	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R431	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R432	NRSA63J-332X	M.G.RESISTOR	3.3k	1/16W
R433	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R434	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R435	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R436	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R437	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R438	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R439	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R440	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R441	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R442	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R443	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R444	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R445	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R446	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R447	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R448	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R449	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R450	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R451	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R452	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R453	NRSA63J-103X	M.G.RESISTOR	10k	1/16W

Symbol No.	Part No.	Part Name	Description	
R455	NRSA63J-104X	M.G.RESISTOR	100k	1/16W
R456	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
R457	NRSA63J-104X	M.G.RESISTOR	100k	1/16W
R458	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R459	NRSA63J-102X	M.G.RESISTOR	1k	1/16W
R460	NRSA63J-102X	M.G.RESISTOR	1k	1/16W
R461	NRSA63J-104X	M.G.RESISTOR	100k	1/16W
R462	NRSA63J-125X	M.G.RESISTOR	1.2M	1/16W
R463	NRSA63J-824X	M.G.RESISTOR	820k	1/16W
R464	NRSA63J-275X	M.G.RESISTOR	2.7M	1/16W
R465	NRSA63J-824X	M.G.RESISTOR	820k	1/16W
R466	NRSA63J-275X	M.G.RESISTOR	2.7M	1/16W
R467	NRSA63J-102X	M.G.RESISTOR	1k	1/16W
R468	NRSA63J-125X	M.G.RESISTOR	1.2M	1/16W
R469	NRSA63J-102X	M.G.RESISTOR	1k	1/16W
R470	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R471	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R472	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R473	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R474	NRSA63J-104X	M.G.RESISTOR	100k	1/16W
R475	NRSA63J-104X	M.G.RESISTOR	100k	1/16W
R476	NRSA63J-104X	M.G.RESISTOR	100k	1/16W
R477	NRSA63J-104X	M.G.RESISTOR	100k	1/16W
R478	NRSA63J-104X	M.G.RESISTOR	100k	1/16W
R479	NRSA63J-104X	M.G.RESISTOR	100k	1/16W
R480	NRSA63J-104X	M.G.RESISTOR	100k	1/16W
R481	NRSA63J-473X	M.G.RESISTOR	47k	1/16W
R482	NRSA63J-473X	M.G.RESISTOR	47k	1/16W
R483	NRSA63J-332X	M.G.RESISTOR	3.3k	1/16W
R484	NRSA63J-332X	M.G.RESISTOR	3.3k	1/16W
R485	NRSA63J-332X	M.G.RESISTOR	3.3k	1/16W
R486	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R487	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R488	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R489	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R490	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R491	NRSA63J-330X	M.G.RESISTOR	33	1/16W
R492	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R493	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
R494	NRSA63J-101X	M.G.RESISTOR	100	1/16W
R495	NRSA63D-273X	M.G.RESISTOR	27k	1/16W
R501	NRSA63J-333X	M.G.RESISTOR	33k	1/16W
RA101	NRZ0015-102X	RESISTOR ARRAY	1k	
RA102	NRZ0015-103X	M.G.RESISTOR	10k	
RA103	NRZ0015-103X	M.G.RESISTOR	10k	
RA104	NRZ0015-330X	RESISTOR ARRAY	33	
RA105	NRZ0015-330X	RESISTOR ARRAY	33	
RA106	NRZ0015-330X	RESISTOR ARRAY	33	
RA107	NRZ0015-330X	RESISTOR ARRAY	33	
RA401	NRZ0015-101X	RESISTOR ARRAY	100	
RA402	NRZ0015-101X	RESISTOR ARRAY	100	
RA403	NRZ0015-101X	RESISTOR ARRAY	100	
C1	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C2	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C3	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C4	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C5	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C6	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C7	NCB31CK-223X	CER.CAPACITOR	0.022	16V
C8	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C9	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C10	NBE21AM-106X	TAN.CAPACITOR	10	10V
C11	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C12	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C13	NBE21AM-106X	TAN.CAPACITOR	10	10V
C14	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C15	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C16	NBE41CM-106X	TAN.CAPACITOR	10	16V
C17	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C18	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C19	NBE41CM-106X	TAN.CAPACITOR	10	16V

Symbol No.	Part No.	Part Name	Description	
C20	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C21	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C22	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C23	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C24	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C25	NDC31HJ-221X	CER.CAPACITOR	220p	50V
C26	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C27	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C28	NDC31HJ-102X	CER.CAPACITOR	1000p	50V
C29	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C30	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C31	NCB11CK-475X	CER.CAPACITOR	4.7	16V
C32	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C33	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C34	NCB11CK-475X	CER.CAPACITOR	4.7	16V
C35	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C101	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C102	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C103	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C104	NDC31HJ-151X	CER.CAPACITOR	150p	50V
C106	NCB30JK-105X	CER.CAPACITOR	1	6.3V
C108	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C109	NBE21AM-106X	TAN.CAPACITOR	10	10V
C110	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C111	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C112	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C113	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C114	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C115	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C116	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C117	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C118	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C119	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C120	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C121	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C122	NDC31HJ-120X	CER.CAPACITOR	12p	50V
C123	NDC31HJ-120X	CER.CAPACITOR	12p	50V
C124	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C125	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C126	NDC31HJ-390X	CER.CAPACITOR	39p	50V
C127	NDC31HJ-102X	CER.CAPACITOR	1000p	50V
C128	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C129	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C130	NCB11CK-105X	CER.CAPACITOR	1	16V
C131	NCB11CK-475X	CER.CAPACITOR	4.7	16V
C133	NDC31HJ-271X	CER.CAPACITOR	270p	50V
C135	NCB31CK-473X	CER.CAPACITOR	0.047	16V
C136	NCB31HK-222X	CER.CAPACITOR	2200p	50V
C137	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C138	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C139	NCB31HK-102X	CER.CAPACITOR	1000p	50V
C140	NDC31HJ-390X	CER.CAPACITOR	39p	50V
C141	NCB31HK-102X	CER.CAPACITOR	1000p	50V
C142	NDC31HJ-390X	CER.CAPACITOR	39p	50V
C143	NDC31HJ-6R0X	CER.CAPACITOR	6p	50V
C144	NDC31HJ-6R0X	CER.CAPACITOR	6p	50V
C145	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C146	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C147	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C148	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C149	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C150	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C151	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C152	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C154	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C155	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C156	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C301	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C302	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C303	NCF31AZ-105X	CER.CAPACITOR	1	10V
C304	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C305	NCF31AZ-105X	CER.CAPACITOR	1	10V

Symbol No.	Part No.	Part Name	Description	
C306	NDC31HJ-150X	CER.CAPACITOR	15p	50V
C307	NDC31HJ-150X	CER.CAPACITOR	15p	50V
C308	NCF31AZ-105X	CER.CAPACITOR	1	10V
C309	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C310	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C311	NCF31AZ-105X	CER.CAPACITOR	1	10V
C312	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C313	NDC31HJ-220X	CER.CAPACITOR	22p	50V
C314	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C401	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C402	NBE41CM-106X	TAN.CAPACITOR	10	16V
C403	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C406	NBE21AM-106X	TAN.CAPACITOR	10	10V
C407	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C408	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C409	NBE21AM-106X	TAN.CAPACITOR	10	10V
C410	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C411	NCB11CK-105X	CER.CAPACITOR	1	16V
C412	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C413	NBE21AM-106X	TAN.CAPACITOR	10	10V
C414	NRSA63J-222X	M.G.RESISTOR	2200p	
C415	NBE21AM-106X	TAN.CAPACITOR	10	10V
C416	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C419	NBE21AM-106X	TAN.CAPACITOR	10	10V
C420	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C421	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C422	NBE21AM-106X	TAN.CAPACITOR	10	10V
C423	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C424	NBE21AM-106X	TAN.CAPACITOR	10	10V
C425	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C426	NBE21AM-106X	TAN.CAPACITOR	10	10V
C427	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C428	NBE21AM-106X	TAN.CAPACITOR	10	10V
C429	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C430	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C432	NCB11CK-105X	CER.CAPACITOR	1	16V
C433	NCB11CK-105X	CER.CAPACITOR	1	16V
C434	NBE21AM-106X	TAN.CAPACITOR	10	10V
C435	NBE21AM-106X	TAN.CAPACITOR	10	10V
C436	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C437	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C438	NCB31CK-223X	CER.CAPACITOR	0.022	16V
C439	NCB31CK-223X	CER.CAPACITOR	0.022	16V
C442	NCB31CK-223X	CER.CAPACITOR	0.022	16V
C443	NCB31CK-223X	CER.CAPACITOR	0.022	16V
C444	NCB31CK-223X	CER.CAPACITOR	0.022	16V
C445	NCB31CK-223X	CER.CAPACITOR	0.022	16V
C446	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C447	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C448	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C449	NCB31HK-102X	CER.CAPACITOR	1000p	50V
C450	NCB31HK-102X	CER.CAPACITOR	1000p	50V
C451	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C452	NBE21AM-106X	TAN.CAPACITOR	10	10V
C453	NCB31CK-104X	CER.CAPACITOR	0.1	16V
L1	NQL044K-100X	COIL	10uH	
L2	NQL044K-100X	COIL	10uH	
L3	NQL044K-100X	COIL	10uH	
L4	NQL044K-100X	COIL	10uH	
L101	NQL024J-2R2X	COIL	2.2uH	
L102	NQR0276-001X	COIL	000uH	
L103	NQL024J-120X	COIL	12uH	
L104	NQL024J-100X	COIL	10uH	
L105	NQL044K-100X	COIL	10uH	
L402	NQL044K-100X	COIL	10uH	
L403	NQL044K-100X	COIL	10uH	
L404	NQL044K-100X	COIL	10uH	
L405	NQL044K-100X	COIL	10uH	
L406	NQL044K-100X	COIL	10uH	
L408	NQL044K-100X	COIL	10uH	

[DV/CPU]

Symbol No.	Part No.	Part Name	Description
LC401	NQR0436-001X	LC FILTER	
LC402	NQR0436-001X	LC FILTER	
LC403	NQR0436-001X	LC FILTER	
LC404	NQR0436-001X	LC FILTER	
LC405	NQR0436-001X	LC FILTER	
X102	NAX0206-001X	CRYSTAL	24.576MHz
X301	NAX0348-001X	CRYSTAL	27.000MHz
CN101	QGA1201F2-06X	CONNECTOR	6PIN
CN102	QGF0508C1-30W	CONNECTOR	30PIN
CN103	QGF0508C1-45W	CONNECTOR	45PIN
CN104	QGF0508C1-13W	CONNECTOR	13PIN
CN105	QGF0508C1-26W	CONNECTOR	26PIN
CN106	QGF0508C1-20W	CONNECTOR	20PIN
CN107	QGF0503F4-08X	CONNECTOR	8PIN
CN108	QGA1501F2-08W	CONNECTOR	8PIN
TP1	NNZ0071-001X	TEST POINT	
TP2	NNZ0071-001X	TEST POINT	
TP3	NNZ0071-001X	TEST POINT	
K1	NQR0265-001X	FERAITE BEADS	
K101	NQR0265-001X	FERAITE BEADS	
K103	NQR0265-001X	FERAITE BEADS	
K401	NQR0265-001X	FERAITE BEADS	
K402	NQR0265-001X	FERAITE BEADS	

6.12 MDA/DC BOARD ASSEMBLY PARTS LIST [1][2]

LK2124A0B [1][2]□□□□□□□

Symbol No.	Part No.	Part Name	Description
IC11	BA6865KV	I.C.(M)	ROHM
IC12	BA6417F-X	I.C.(M)	ROHM
IC21	BA6862FS-X	I.C.(M)	ROHM
IC22	BA10358F-XE	I.C.(M)	ROHM
IC23	BA10393F-XE	I.C.(M)	ROHM
IC31	BA9743AFV-X	I.C.(M)	ROHM
IC32	BA9743AFV-X	I.C.(M)	ROHM
IC41	BA9743AFV-X	I.C.(M)	ROHM
IC42	MM1572KN-X	I.C.(M)	MITSUMI
IC43	MM1572FN-X	I.C.(M)	MITSUMI
Q11	2SB1302/ST/-X	TRANSISTOR	SANYO
Q12	2SB1302/ST/-X	TRANSISTOR	SANYO
Q13	2SB1302/ST/-X	TRANSISTOR	SANYO
Q14	2SC4081/QRS/-X	TRANSISTOR	ROHM
Q15	2SC4081/QRS/-X	TRANSISTOR	ROHM
Q21	2SB1302/ST/-X	TRANSISTOR	SANYO
Q22	2SB1302/ST/-X	TRANSISTOR	SANYO
Q23	2SB1302/ST/-X	TRANSISTOR	SANYO
Q31	2SJ484WY-X	FET	HITACHI
Q32	2SJ484WY-X	FET	HITACHI
Q33	2SJ484WY-X	FET	HITACHI
Q34	DTC124EUA-X	TRANSISTOR	ROHM
Q35	2SB1302/ST/-X	TRANSISTOR	SANYO
Q36	2SJ484WY-X	FET	HITACHI
Q37	DTA114EUA-X	TRANSISTOR	ROHM
Q41	2SJ484WY-X	FET	HITACHI
Q42	2SJ484WY-X	FET	HITACHI
Q43	2SC4097/QR/-X	TRANSISTOR	ROHM
Q44	2SA1577/QR/-X	TRANSISTOR	ROHM
Q45	2SC4097/QR/-X	TRANSISTOR	ROHM
Q46	2SA1577/QR/-X	TRANSISTOR	ROHM
Q51	2SC4097/QR/-X	TRANSISTOR	ROHM
Q52	2SA1577/QR/-X	TRANSISTOR	ROHM
Q53	2SC4097/QR/-X	TRANSISTOR	ROHM
Q54	2SA1577/QR/-X	TRANSISTOR	ROHM
Q55	2SC4097/QR/-X	TRANSISTOR	ROHM
Q56	2SA1577/QR/-X	TRANSISTOR	ROHM
Q57	2SC4097/QR/-X	TRANSISTOR	ROHM
Q58	2SA1577/QR/-X	TRANSISTOR	ROHM
D11	DAP222-X	DIODE	ROHM
D12	MA3110/L/-X	ZENER DIODE	MATSUSHITA
D13	DAP222-X	DIODE	ROHM
D22	MA3020-X	ZENER DIODE	MATSUSHITA
D31	SFPB-72-W	SB DIODE	SANKEN
D32	SFPB-72-W	SB DIODE	SANKEN
D33	DAP202U-X	DIODE	ROHM
D34	SFPB-72-W	SB DIODE	SANKEN
D35	DA204U-X	DIODE	ROHM
D36	SFPB-72-W	SB DIODE	SANKEN
D37	DAP202U-X	DIODE	ROHM
D41	SFPB-72-W	SB DIODE	SANKEN
D42	SFPB-72-W	SB DIODE	SANKEN
R101	NRSA63J-155X	M.G.RESISTOR	1.5M 1/16W
R102	NRSA63J-274X	M.G.RESISTOR	270k 1/16W
R103	NRSA63J-681X	M.G.RESISTOR	680 1/16W
R104	NRSA63J-272X	M.G.RESISTOR	2.7k 1/16W
R105	NRSA63J-104X	M.G.RESISTOR	100k 1/16W
R106	NRSA63J-511X	M.G.RESISTOR	510 1/16W
R107	NRSA63J-511X	M.G.RESISTOR	510 1/16W
R108	NRSA63J-511X	M.G.RESISTOR	510 1/16W
R109	NRSA63J-511X	M.G.RESISTOR	510 1/16W
R110	NRSA63J-223X	M.G.RESISTOR	22k 1/16W
R111	NRV142F-R22X	C.M.F.RESISTOR	0.22 1/4W
R112	NRS12BK-R68X	M.G.RESISTOR	0.68 1/2W
R113	NRSA63J-0R0X	M.G.RESISTOR	0 1/16W
R114	NRSA63J-154X	M.G.RESISTOR	150k 1/16W
R115	NRSA63J-202X	M.G.RESISTOR	2k 1/16W
R116	NRSA63J-474X	M.G.RESISTOR	470k 1/16W
R117	NRSA63J-103X	M.G.RESISTOR	10k 1/16W
R118	NRSA63J-103X	M.G.RESISTOR	10k 1/16W
R120	NRSA63J-103X	M.G.RESISTOR	10k 1/16W
R121	NRSA63J-473X	M.G.RESISTOR	47k 1/16W
R122	NRSA63J-203X	M.G.RESISTOR	20k 1/16W
R123	NRSA63J-393X	M.G.RESISTOR	39k 1/16W
R124	NRSA63J-102X	M.G.RESISTOR	1k 1/16W
R125	NRSA63J-102X	M.G.RESISTOR	1k 1/16W
R126	NRSA63J-274X	M.G.RESISTOR	270k 1/16W
R127	NRSA63J-272X	M.G.RESISTOR	2.7k 1/16W
R128	NRSA63J-0R0X	M.G.RESISTOR	0 1/16W
R131	NRSA63J-103X	M.G.RESISTOR	10k 1/16W
R132	NRSA63J-222X	M.G.RESISTOR	2.2k 1/16W
R133	NRSA63J-103X	M.G.RESISTOR	10k 1/16W
R134	NRSA63J-472X	M.G.RESISTOR	4.7k 1/16W
R135	NRSA63J-104X	M.G.RESISTOR	100k 1/16W
R136	NRSA63J-104X	M.G.RESISTOR	100k 1/16W
R138	NRSA63J-0R0X	M.G.RESISTOR	0 1/16W
R139	NRS12BK-R68X	M.G.RESISTOR	0.68 1/2W
R201	NRSA63J-103X	M.G.RESISTOR	10k 1/16W
R202	NRSA63J-474X	M.G.RESISTOR	470k 1/16W
R203	NRSA63J-104X	M.G.RESISTOR	100k 1/16W
R204	NRSA63J-124X	M.G.RESISTOR	120k 1/16W
R205	NRSA63J-153X	M.G.RESISTOR	15k 1/16W
R206	NRSA63J-154X	M.G.RESISTOR	150k 1/16W
R207	NRSA63J-272X	M.G.RESISTOR	2.7k 1/16W
R208	NRSA63J-103X	M.G.RESISTOR	10k 1/16W
R209	NRS144J-1R0X	M.G.RESISTOR	1 1/4W
R210	NRS144J-1R0X	M.G.RESISTOR	1 1/4W
R211	NRSA63J-103X	M.G.RESISTOR	10k 1/16W
R212	NRSA63J-393X	M.G.RESISTOR	39k 1/16W
R213	NRSA63J-102X	M.G.RESISTOR	1k 1/16W

Symbol No.	Part No.	Part Name	Description	
R214	NRSA63J-273X	M.G.RESISTOR	27k	1/16W
R215	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
R216	NRSA63J-102X	M.G.RESISTOR	1k	1/16W
R217	NRSA63J-121X	M.G.RESISTOR	120	1/16W
R218	NRSA63J-121X	M.G.RESISTOR	120	1/16W
R219	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
R220	NRSA63J-104X	M.G.RESISTOR	100k	1/16W
R221	NRSA63J-474X	M.G.RESISTOR	470k	1/16W
R222	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
R223	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
R224	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
R225	NRSA63J-563X	M.G.RESISTOR	56k	1/16W
R226	NRSA63J-105X	M.G.RESISTOR	1M	1/16W
R227	NRSA63J-105X	M.G.RESISTOR	1M	1/16W
R228	NRSA63J-105X	M.G.RESISTOR	1M	1/16W
R229	NRSA63J-105X	M.G.RESISTOR	1M	1/16W
R230	NRSA63J-105X	M.G.RESISTOR	1M	1/16W
R301	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
R302	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R303	NRSA63D-103X	M.G.RESISTOR	10k	1/16W
R304	NRSA63D-103X	M.G.RESISTOR	10k	1/16W
R305	NRSA63J-333X	M.G.RESISTOR	33k	1/16W
R306	NRSA63J-222X	M.G.RESISTOR	2.2k	1/16W
R307	NRSA63J-102X	M.G.RESISTOR	1k	1/16W
R308	NRSA63J-683X	M.G.RESISTOR	68k	1/16W
R309	NRSA63J-562X	M.G.RESISTOR	5.6k	1/16W
R310	NRSA63J-153X	M.G.RESISTOR	15k	1/16W
R311	NRSA63J-393X	M.G.RESISTOR	39k	1/16W
R312	NRSA63J-222X	M.G.RESISTOR	2.2k	1/16W
R313	NRSA63J-102X	M.G.RESISTOR	1k	1/16W
R314	NRSA63J-153X	M.G.RESISTOR	15k	1/16W
R315	NRSA63J-562X	M.G.RESISTOR	5.6k	1/16W
R316	NRSA63J-104X	M.G.RESISTOR	100k	1/16W
R317	NRSA63J-823X	M.G.RESISTOR	82k	1/16W
R318	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
R319	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
R320	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R321	NRSA63D-103X	M.G.RESISTOR	10k	1/16W
R322	NRSA63D-103X	M.G.RESISTOR	10k	1/16W
R323	NRSA63J-222X	M.G.RESISTOR	2.2k	1/16W
R324	NRSA63J-102X	M.G.RESISTOR	1k	1/16W
R325	NRSA63J-473X	M.G.RESISTOR	47k	1/16W
R326	NRSA63J-472X	M.G.RESISTOR	4.7k	1/16W
R327	NRSA63J-152X	M.G.RESISTOR	1.5k	1/16W
R328	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
R329	NRSA63J-563X	M.G.RESISTOR	56k	1/16W
R330	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
R331	NRSA63J-473X	M.G.RESISTOR	47k	1/16W
R332	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R333	NRSA63J-222X	M.G.RESISTOR	2.2k	1/16W
R334	NRSA63J-102X	M.G.RESISTOR	1k	1/16W
R335	NRSA63J-333X	M.G.RESISTOR	33k	1/16W
R336	NRSA63J-562X	M.G.RESISTOR	5.6k	1/16W
R337	NRSA63J-223X	M.G.RESISTOR	22k	1/16W
R338	NRSA63J-333X	M.G.RESISTOR	33k	1/16W
R339	NRSA63J-563X	M.G.RESISTOR	56k	1/16W
R340	NRSA63J-823X	M.G.RESISTOR	82k	1/16W
R341	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
R342	NRSA63J-100X	M.G.RESISTOR	10	1/16W
R343	NRSA63J-100X	M.G.RESISTOR	10	1/16W
R344	NRSA63J-100X	M.G.RESISTOR	10	1/16W
R345	NRSA63J-100X	M.G.RESISTOR	10	1/16W
R346	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R351	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R401	NRSA63J-103X	M.G.RESISTOR	10k	1/16W
R402	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R403	NRSA63J-0R0X	M.G.RESISTOR	0	1/16W
R404	NRSA63D-472X	M.G.RESISTOR	4.7k	1/16W
R405	NRSA63D-332X	M.G.RESISTOR	3.3k	1/16W
R406	NRSA63D-472X	M.G.RESISTOR	4.7k	1/16W
R407	NRSA63D-472X	M.G.RESISTOR	4.7k	1/16W
R408	NRSA63D-473X	M.G.RESISTOR	47k	1/16W

Symbol No.	Part No.	Part Name	Description	
R409	NRSA63D-273X	M.G.RESISTOR	27k	1/16W
R410	NRSA63J-222X	M.G.RESISTOR	2.2k	1/16W
R411	NRSA63J-102X	M.G.RESISTOR	1k	1/16W
R412	NRSA63D-182X	M.G.RESISTOR	1.8k	1/16W
R413	NRSA63D-182X	M.G.RESISTOR	1.8k	1/16W
R414	NRSA63D-122X	M.G.RESISTOR	1.2k	1/16W
R415	NRSA63J-222X	M.G.RESISTOR	2.2k	1/16W
R416	NRSA63J-102X	M.G.RESISTOR	1k	1/16W
R417	NRSA63D-562X	M.G.RESISTOR	5.6k	1/16W
R418	NRSA63D-272X	M.G.RESISTOR	2.7k	1/16W
R419	NRSA63J-330X	M.G.RESISTOR	33	1/16W
R420	NRSA63J-100X	M.G.RESISTOR	10	1/16W
R421	NRSA63J-100X	M.G.RESISTOR	10	1/16W
C104	NBE21AM-106X	TAN.CAPACITOR	10	10V
C105	NEH91CM-106X	E.CAPACITOR	10	16V
C106	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C107	NCB31HK-152X	CER.CAPACITOR	1500p	50V
C108	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C109	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C120	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C121	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C122	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C123	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C124	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C125	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C126	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C127	NCB31AK-224X	CER.CAPACITOR	0.22	10V
C128	NCB31AK-224X	CER.CAPACITOR	0.22	10V
C129	NCB31AK-224X	CER.CAPACITOR	0.22	10V
C130	NEH91CM-106X	E.CAPACITOR	10	16V
C131	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C132	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C133	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C134	NCB31CK-223X	CER.CAPACITOR	0.022	16V
C135	NCB31CK-223X	CER.CAPACITOR	0.022	16V
C136	NCB31CK-223X	CER.CAPACITOR	0.022	16V
C137	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C138	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C139	NEH90JM-226X	E.CAPACITOR	22	6.3V
C140	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C142	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C143	NCB31CK-223X	CER.CAPACITOR	0.022	16V
C144	NCB31CK-473X	CER.CAPACITOR	0.047	16V
C145	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C147	NCB11CK-105X	CER.CAPACITOR	1	16V
C148	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C149	NEH90JM-226X	E.CAPACITOR	22	6.3V
C156	NCB11CK-105X	CER.CAPACITOR	1	16V
C157	NDC31HJ-102X	CER.CAPACITOR	1000p	50V
C158	NCB31CK-223X	CER.CAPACITOR	0.022	16V
C159	NCB31CK-223X	CER.CAPACITOR	0.022	16V
C160	NDC31HJ-471X	CER.CAPACITOR	470p	50V
C201	NCB31CK-223X	CER.CAPACITOR	0.022	16V
C202	NEH91CM-106X	E.CAPACITOR	10	16V
C203	NCB31CK-223X	CER.CAPACITOR	0.022	16V
C204	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C205	NCB31HK-153X	CER.CAPACITOR	0.015	50V
C206	NCB31CK-273X	CER.CAPACITOR	0.027	16V
C207	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C209	NCF31AZ-105X	CER.CAPACITOR	1	10V
C210	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C211	NCB31CK-223X	CER.CAPACITOR	0.022	16V
C212	NCB31CK-223X	CER.CAPACITOR	0.022	16V
C213	NCB31CK-223X	CER.CAPACITOR	0.022	16V
C214	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C215	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C216	NCB31CK-104X	CER.CAPACITOR	0.1	16V
C217	NCF31AZ-105X	CER.CAPACITOR	1	10V
C218	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C219	NCB31HK-103X	CER.CAPACITOR	0.01	50V
C220	NCF31AZ-105X	CER.CAPACITOR	1	10V
C221	NCB31HK-103X	CER.CAPACITOR	0.01	50V

Symbol No.	Part No.	Part Name	Description
C301	NEH91VM-106X	E.CAPACITOR	10 35V
C303	NDC31HJ-221X	CER.CAPACITOR	220p 50V
C304	NCB31CK-104X	CER.CAPACITOR	0.1 16V
C305	NCB11CK-475X	CER.CAPACITOR	4.7 16V
C306	NCB31CK-104X	CER.CAPACITOR	0.1 16V
C307	NCB31CK-104X	CER.CAPACITOR	0.1 16V
C308	NCB11CK-105X	CER.CAPACITOR	1 16V
C309	NBE21DM-475X	TAN.CAPACITOR	4.7 20V
C311	NCB11CK-105X	CER.CAPACITOR	1 16V
C312	NBE21DM-475X	TAN.CAPACITOR	4.7 20V
C313	NDC31HJ-102X	CER.CAPACITOR	1000p 50V
C314	NDC31HJ-221X	CER.CAPACITOR	220p 50V
C315	NCB31CK-104X	CER.CAPACITOR	0.1 16V
C316	NCB11CK-475X	CER.CAPACITOR	4.7 16V
C317	NCB31CK-104X	CER.CAPACITOR	0.1 16V
C318	NCB31CK-104X	CER.CAPACITOR	0.1 16V
C319	NCB11CK-105X	CER.CAPACITOR	1 16V
C320	NCB11CK-475X	CER.CAPACITOR	4.7 16V
C321	NCB11CK-105X	CER.CAPACITOR	1 16V
C322	NCB11CK-475X	CER.CAPACITOR	4.7 16V
C323	NDC31HJ-102X	CER.CAPACITOR	1000p 50V
C401	NDC31HJ-221X	CER.CAPACITOR	220p 50V
C402	NCB31HK-103X	CER.CAPACITOR	0.01 50V
C403	NCB11CK-475X	CER.CAPACITOR	4.7 16V
C404	NCB31HK-103X	CER.CAPACITOR	0.01 50V
C405	NCF31AZ-105X	CER.CAPACITOR	1 10V
C407	NCF11CZ-225X	CER.CAPACITOR	2.2 16V
C408	NCF31AZ-105X	CER.CAPACITOR	1 10V
C409	NCB11CK-105X	CER.CAPACITOR	1 16V
C410	NCB10JK-106X	CER.CAPACITOR	10 6.3V
C411	NCB10JK-106X	CER.CAPACITOR	10 6.3V
C412	NCB10JK-106X	CER.CAPACITOR	10 6.3V
C413	NCB31AK-224X	CER.CAPACITOR	0.22 10V
C414	NCB10JK-106X	CER.CAPACITOR	10 6.3V
C415	NCB10JK-106X	CER.CAPACITOR	10 6.3V
C416	NCB11CK-105X	CER.CAPACITOR	1 16V
C417	NBE21AM-106X	TAN.CAPACITOR	10 10V
C418	NBE21AM-106X	TAN.CAPACITOR	10 10V
C419	NBE21AM-106X	TAN.CAPACITOR	10 10V
C420	NCB31AK-224X	CER.CAPACITOR	0.22 10V
C421	NCB10JK-106X	CER.CAPACITOR	10 6.3V
C422	NCB31HK-103X	CER.CAPACITOR	0.01 50V
C423	NBE21AM-106X	TAN.CAPACITOR	10 10V
C424	NBE21AM-106X	TAN.CAPACITOR	10 10V
C425	NCB31HK-103X	CER.CAPACITOR	0.01 50V
C426	NBE21AM-106X	TAN.CAPACITOR	10 10V
C427	NBE21AM-106X	TAN.CAPACITOR	10 10V
L21	NQL24CN-220X	COIL	22uH
L31	NQL42EM-220X	COIL	22uH
L33	NQL24CN-220X	COIL	22uH
L34	NQL24CN-220X	COIL	22uH
L35	NQL24CN-220X	COIL	22uH
L36	NQL24CN-220X	COIL	22uH
L41	NQL24CN-220X	COIL	22uH
L42	NQL24CN-220X	COIL	22uH
L43	NQL24CN-220X	COIL	22uH
L44	NQL24CN-220X	COIL	22uH
L45	NQL24CN-220X	COIL	22uH
LC11	NQR0436-001X	LC FILTER	
IF1	NMFZ011-1R6X-S	FUSE	1.6A/63V
CN105	QGF0508C1-26W	CONNECTOR	26PIN
CN108	QGA1501C2-08W	CONNECTOR	8PIN
CN111	SS3O662-004	CONNECTOR	4PIN
CN112	QGF0508C1-12W	CONNECTOR	12PIN
CN113	QGF0508C1-18W	CONNECTOR	18PIN
CN114	QGA1201C2-02X	CONNECTOR	2PIN

Symbol No.	Part No.	Part Name	Description
CN116	QGF0508C1-20W	CONNECTOR	20PIN
CN117	QGA1501C2-02W	CONNECTOR	2PIN
CN119	QGA1201C2-02X	CONNECTOR	2PIN
K1	NRSA63J-0R0X	M.G.RESISTOR	0 1/16W
QA11	BA6254FS-X	TR ARRAY	

6.13 MECHA BOARD ASSEMBLY PARTS LIST [1][3]

LK2123A0A1 [1][3]□□□□□□□

Symbol No.	Part No.	Part Name	Description
VR1	NVQ0006-B14X	VAL.RESISTOR	10k MODE SENSOR
TH1	NAD0002-223X	THERMISTOR	22k
S1	NSW0171-001	PUSH SWITCH	STD CASSETTE SW
S2	NSW0170-001	PUSH SWITCH	SP REEL LOCK SW
S3	NSW0170-001	PUSH SWITCH	CASSETTE IN SW
CN104	QGF0508F1-13X	CONNECTOR	13PIN
CN106	QGF0508F1-20X	CONNECTOR	20PIN
CN116	QGF0508F1-20X	CONNECTOR	20PIN
CN124	QGF0508F1-18X	CONNECTOR	18PIN
CN125	QGF0508F2-10X	CONNECTOR	10PIN
CN128	QGA1201C2-02X	CONNECTOR	2PIN

6.14 MECHA CONN BOARD ASSEMBLY PARTS LIST [1][4]

LK2123B0A2 [1][4]□□□□□□□

Symbol No.	Part No.	Part Name	Description
CN100	QGF0508F1-11X	CONNECTOR	11PIN
CN112	QGF0508C1-12W	CONNECTOR	12PIN

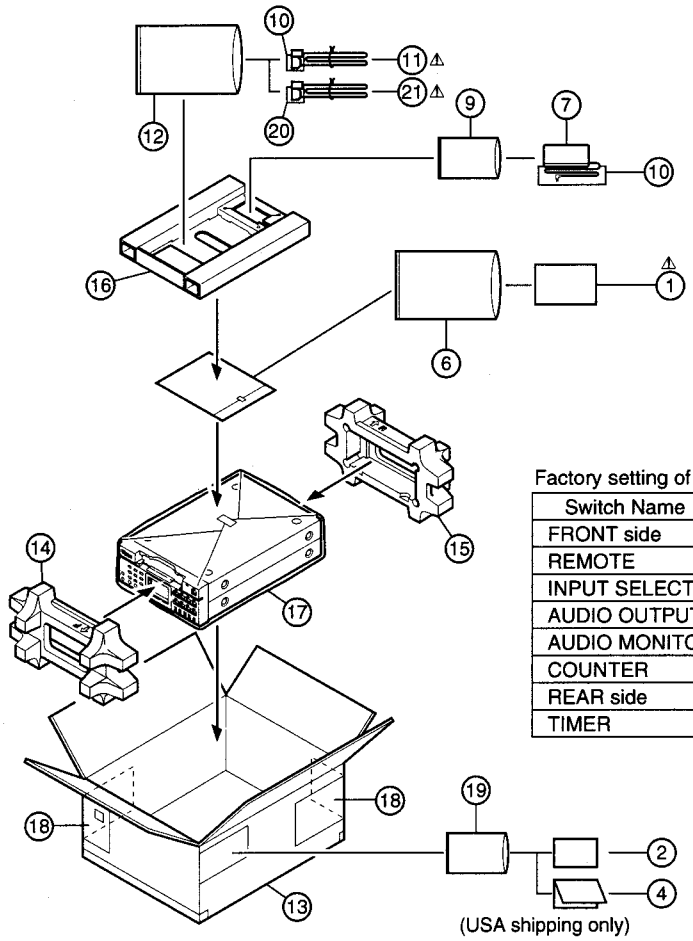
6.15 RS-422 BOARD ASSEMBLY PARTS LIST [2][1]

LK2133A0A4 [2][1]□□□□□□□

Symbol No.	Part No.	Part Name	Description
D1	MA3240/M/-X	ZENER DIODE	MATSUSHITA
D2	MA3240/M/-X	ZENER DIODE	MATSUSHITA
D3	MA3240/M/-X	ZENER DIODE	MATSUSHITA
D4	MA3240/M/-X	ZENER DIODE	MATSUSHITA
D5	MA3240/M/-X	ZENER DIODE	MATSUSHITA
D6	MA3240/M/-X	ZENER DIODE	MATSUSHITA
D7	MA3240/M/-X	ZENER DIODE	MATSUSHITA
D8	MA3240/M/-X	ZENER DIODE	MATSUSHITA
J401	QNZ0475-001	9 PIN CONNECTOR	RS-422/9PIN
CN17	QGA1501F1-07	CONNECTOR	7PIN
K1	PGZ01693-009Z	FERRITE BEADS	
K2	PGZ01693-009Z	FERRITE BEADS	

SECTION 7
PACKING

7.1 PACKING ASSEMBLY M 1



Factory setting of switch

Switch Name	Setting
FRONT side	
REMOTE	LOCAL
INPUT SELECT	LINE
AUDIO OUTPUT	MIX
AUDIO MONITOR	MIX
COUNTER	TC
REAR side	
TIMER	OFF

Note : Accessories above are subject to change without notice.

■ PAKING PARTS LIST M 1

M 1 M M □□□□

Symbol No.	Part No.	Part Name	Description
⚠ 1	LLT0033-001A	INSTRUCTIONS	U MODEL
⚠ 1	LLT0034-001A	INSTRUCTIONS	E MODEL
2	–	SERVICE INFORMATION CARD	U MODEL
4	–	WARRANTY CARD	U MODEL
6	QPB02403404	PLASTIC BAG	
7	AA-G60U	AC ADAPTOR	U MODEL
7	AA-G60E	AC ADAPTOR	E MODEL
9	QPA01202005	PLASTIC BAG	
10	PUP40003-7	AIR CAP	
⚠ 11	QMPE230-244-K2	POWER CORD	U MODEL
⚠ 11	QMPP020-200-K	POWER CORD	E MODEL
12	QPB02002804	PLASTIC BAG	
13	LL30348-001A	PACKING CASE	
14	LL10079-001B	CUSHION	
15	LL10080-001B	CUSHION	
16	LL10081-001A	PACKING CASE	
17	PRD30077-10	PLASTIC BAG	
18	SC32090-004	LABEL SHEET	x2
19	–	PLASTIC BAG	U MODEL
20	PRD30413-13	AIR CAP	E MODEL
⚠ 21	QMP4250-250	POWER CORD	E MODEL

SECTION 8
DV SPECIFICATION COMPARISON

No	Item	BR-DV6000	BR-DV600 (A)	BR-DV3000
1	Playback (Format)	DV/DVCAM	DV	DV/DVCAM
2	Recording (Format)	DV	DV	DV
3	Search Speed	(1/30), 1/10 ,1/5, 1/3, 1/2, 1, 2, 5, 10(NTSC 9), 20X	1/10, 1/5, 1/2, 1, 5, 10X	(1/30), 1/10 ,1/5, 1/3, 1/2, 1, 2, 5, 10(NTSC 9), 20X
4	Field/Frame select	Frame/Field/1st field/2nd field	No	Frame/Field/1st field/2nd field
5	Editing Function	Yes (Under certain condition)	No	No
6	"PB/EE picture swvitchingat edit point"	Yes (4frames delay in analoginterface)	No	No
7	NTSC/PAL compatibility	Yes	No	Yes
8	Status display	Yes (2.5"LCD display:TC/UB/A.level etc)	Yes (LCD:TC/UB/A.level etc)	No
9	Replication mode	Yes	No	No
10	Repeat playback	Yes (Tape end/Video end/Index)	Yes (Tape end)	Yes (Tape end/Video end/Index)
11	Network connectivity	Yes (SA-DV6000)	No	No
12	Cassette tape	Standard/Mini DV tape	Mini DV tape	Standard/Mini DV tape
13	REC/PB time	270min (ME270)/60min(ME60)	60min (ME60)	270min (ME270)/60min(ME60)
14	Weight	4.5Kg	3.6Kg	2.5Kg
15	Dimensions	212x88x327mm	212x88x325mm	174x68x260mm
16	Power requirements	DC12V	DC12V (11-15V) AC100-120V : U model AC220-240V : E model	DC12V
17	Power consumption	24W (option 41Wmax)	27W	13W
18	Audio input	Yes (RCAx2/XLRx2:option)	Yes (RCAx2)	Yes (RCAx2)
19	Audio output	Yes (RCAx2/XLRx2:option)	Yes (RCAx2)	Yes (RCAx2)
20	Remote input	RS-422 : D-SUB 9pin female RS-232C : D-SUB 9pin male (option) JVC BUS : 12pin	RS-422 : D-SUB 9pin female JVC BUS : 12pin SERIAL : Minijack	RS-422 : D-SUB 9pin female SERIAL : Minijack
21	TC IN	Yes (BNC)	No	No
22		Yes (BNC)	Yes (BNC)	No
23	AC input	No	Yes (3-plugx1)	No
24	DC input	Yes (2-pinx1)	Yes (XLR 4-pinx1)	Yes (2-pinx1)
25	Provided accessories	AC adapter	AC cable	AC adapter